

TC-K520

SERVICE MANUAL

*Canadian Model
AEP Model
UK Model*



Model Name Using Similar Mechanism	TC-RX70/RX70ES
Tape Transport Mechanism Type	TCM-200V1

SPECIFICATIONS

Recording system 4-track 2-channel stereo
 Bias AC bias
 Wow and flutter $\pm 0.16\%$ W Peak (DIN)
 Fast-forward and rewind time
 Approx. 90 sec. (with C-60 cassette)
 Frequency response (DOLBY NR off)

TYPE IV cassette (Sony METAL-ES)	25 – 19,000 Hz (± 3 dB, DIN) 30 – 15,000 Hz (OVU recording, ± 3 dB)
TYPE II cassette (Sony UX-S)	25 – 17,000 Hz (± 3 dB, DIN) 15 – 18,000 Hz
TYPE I cassette (Sony HF-S)	25 – 16,000 Hz (± 3 dB, DIN) 15 – 17,000 Hz

Signal-to-noise ratio (at peak level)

Cassette \ Dolby NR switch	OFF	B-TYPE ON	C-TYPE ON
TYPE IV (Sony METAL-ES)	59 dB	67 dB	74 dB
TYPE II (Sony UX-S)	58 dB	66 dB	73 dB
TYPE I (Sony HF-S)	56 dB	64 dB	71 dB

Total harmonic distortion
 1.0% (with Sony METAL-ES cassette)

Inputs

Line inputs (phono jacks)	Sensitivity	77.5 mV (-20 dB)
	Input impedance	50k ohms

Outputs

Line outputs (phono jacks)	Rated output level	0.44 V (-5 dB) at a load impedance 47k ohms
	Load impedance	Over 10k ohms
Headphones (stereo phone jack)	Output level	0.3 mW at a load impedance of 32 ohms

General

Power requirements AEP, West Germany models:
 220 V AC, 50/60 Hz
 UK model:
 240 V AC, 50 Hz
 Canadian model:
 120 V AC, 60 Hz

Power consumption AEP, West Germany, UK models:
 20 W
 Canadian model: 19 W

Dimensions Approx. 430 \times 123 \times 285 mm (w/h/d)
 (17 \times 4 $\frac{7}{8}$ \times 11 $\frac{1}{4}$ inches)


Weight Approx. 4.7 kg (10 lbs 6 oz)

Supplied accessory Audio connecting cord (2)

Design and specifications subject to change without notice.

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

Dolby noise reduction manufactured under license from
 Dolby Laboratories Licensing Corporation.
 "DOLBY" and the double-D symbol  are trademarks of
 Dolby Laboratories Licensing Corporation.

STEREO CASSETTE DECK
SONY®

OPERATING VOLTAGE

Before connecting the unit to the power source, check that the operating voltage of your unit is the same as the local power line voltage.

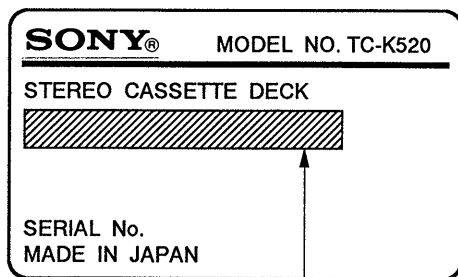
The Canadian model operates on 120V AC.

The WG, AEP model operates on 220V AC.

The UK model operates on 240V AC.

MODEL IDENTIFICATION

– Specification Label –





WG, AEP model: AC: 220 V ~50/60 Hz
 Canadian Model: AC: 120 V 60Hz 19 W
 UK model: AC: 240 V ~50/60 Hz


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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

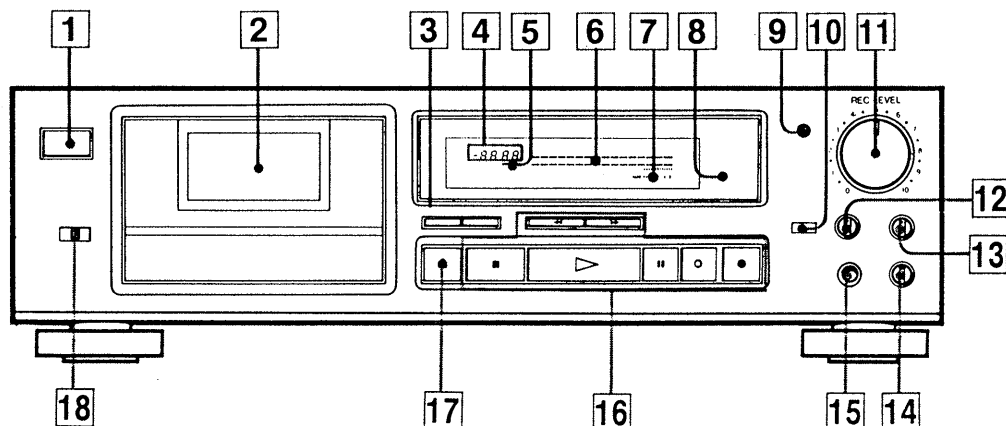
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!



LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1

GENERAL

Identification of Front Panel Parts



- | | |
|---|---|
| <p>1 POWER switch</p> <p>2 Cassette holder</p> <p>3 COUNTER buttons
RESET button/MEMORY button</p> <p>4 LINEAR COUNTER</p> <p>5 MEMORY indicator</p> <p>6 PEAK LEVEL METER</p> <p>7 TAPE TYPE indicator</p> <p>8 Remote sensor
You can remotely control this cassette deck with:
— A remote commander that has an  mark and comes with a Sony amplifier or receiver and which can be used to control a cassette deck.
— An optional Sony remote commander that has an  mark.</p> <p>9 DISPLAY MODE button</p> <p>10 MPX FILTER switch</p> <p>11 REC LEVEL (recording level) control</p> <p>12 DOLBY NR switch</p> | <p>13 BALANCE control</p> <p>14 BIAS (bias adjust) control</p> <p>15 HEADPHONES jack (stereo phone jack)</p> <p>16 Tape operation buttons
◀◀ (rewind) button
▶▶ (fast-forward) button
■ (stop) button
▷ (play) button (AMS*)
 PAUSE button
○ REC MUTE (record muting) button
● REC (record) button</p> <p>17 ▲ OPEN/CLOSE button</p> <p>18 TIMER switch</p> |
|---|---|

* AMS is an abbreviation for Automatic Music Sensor.

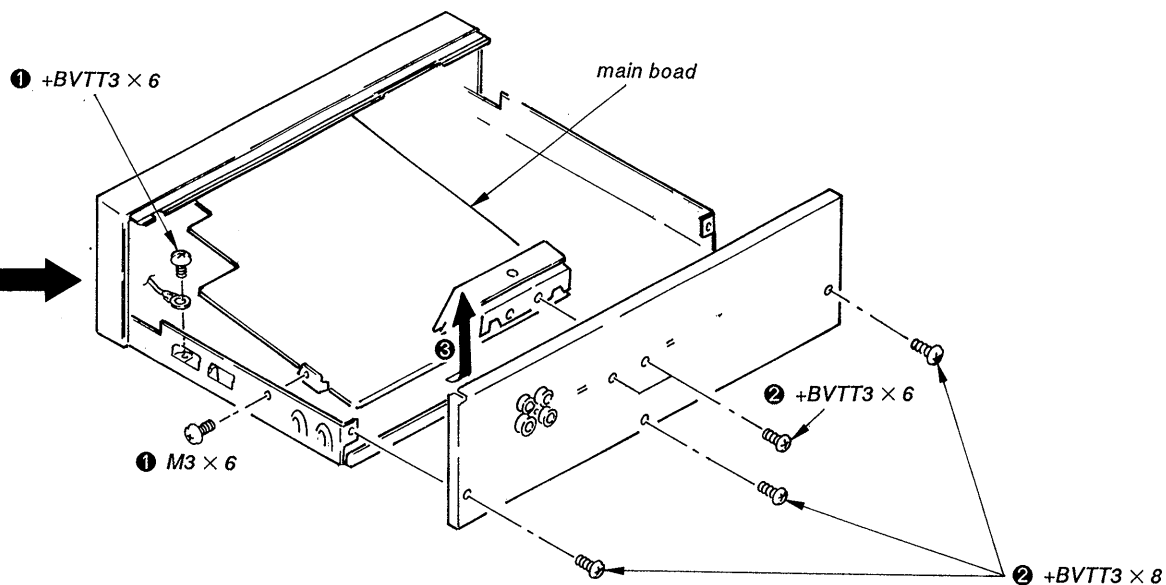
SECTION 2

DISASSEMBLY

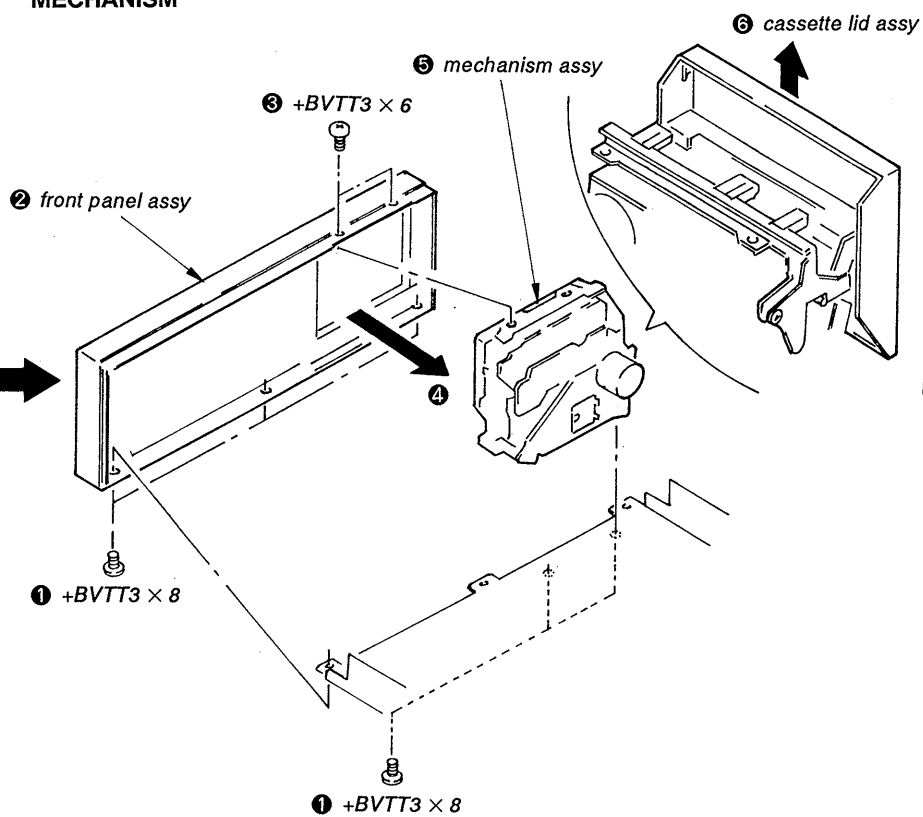
Note: Follow the disassembly procedure in the numerical order given.

Unscrew the four case attachment screws $M3 \times 8$ and remote the upper case.

MAIN BOARD

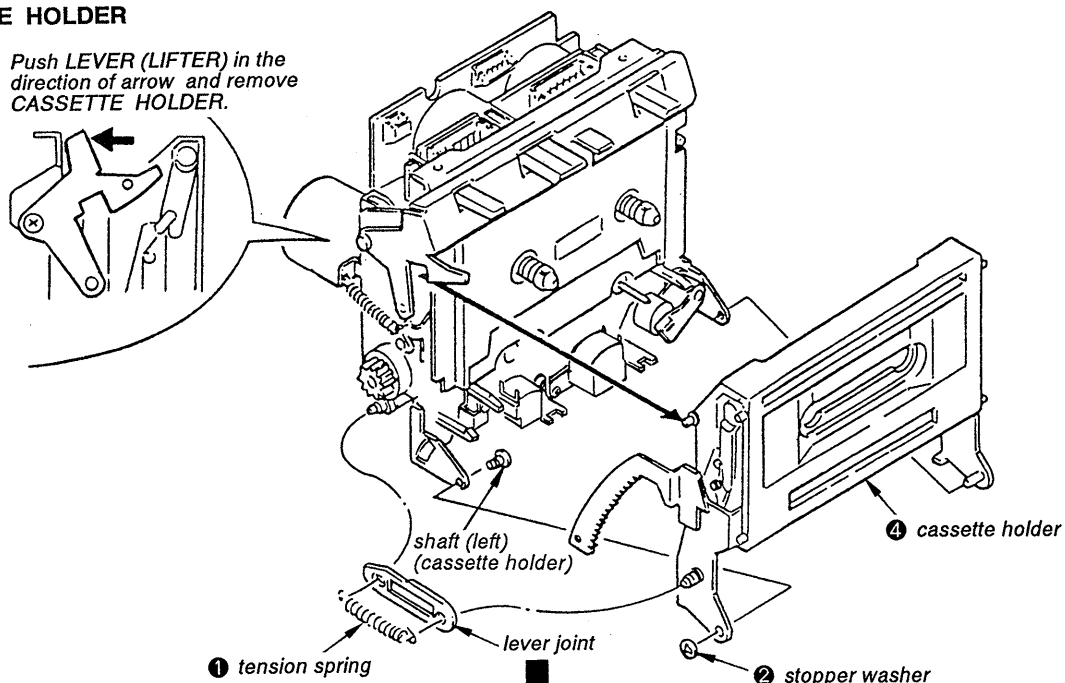


MECHANISM



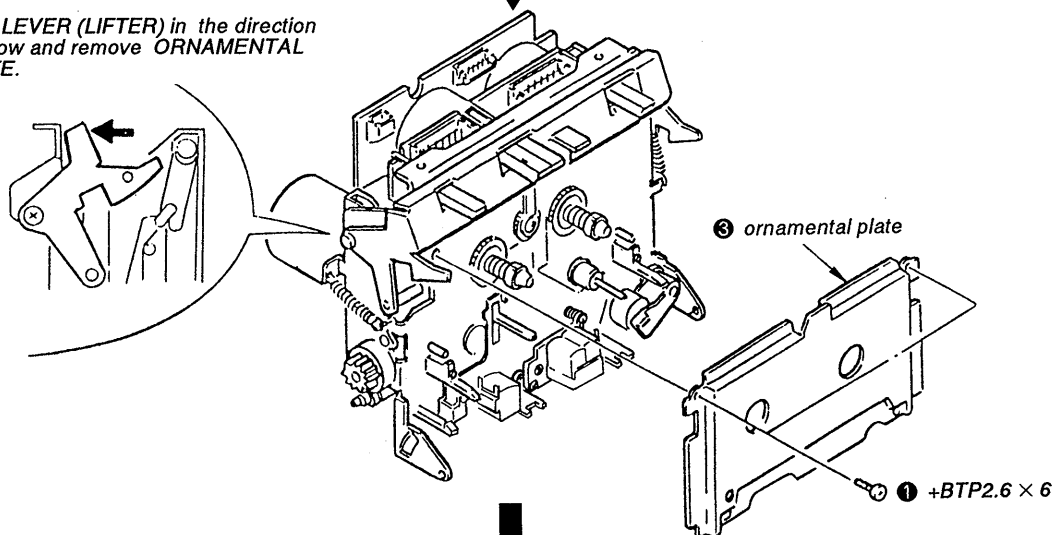
CASSETTE HOLDER

- ③ Push LEVER (LIFTER) in the direction of arrow and remove CASSETTE HOLDER.

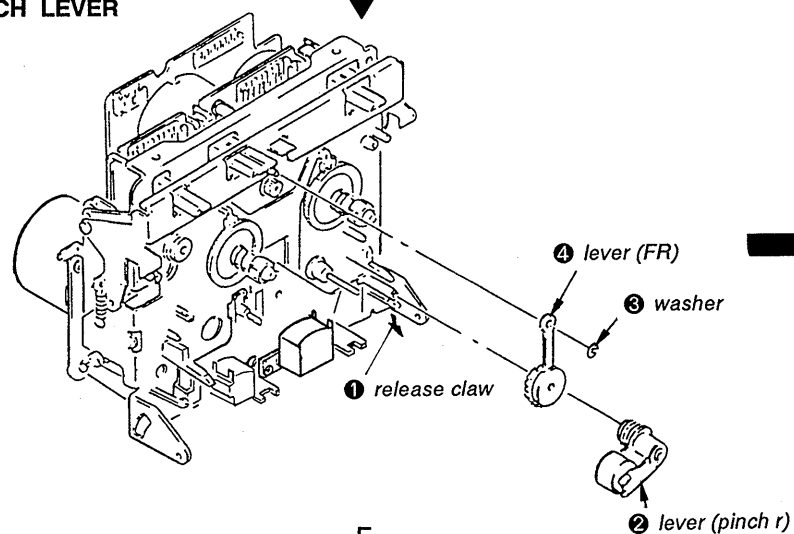


ORNAMENTAL PLATE

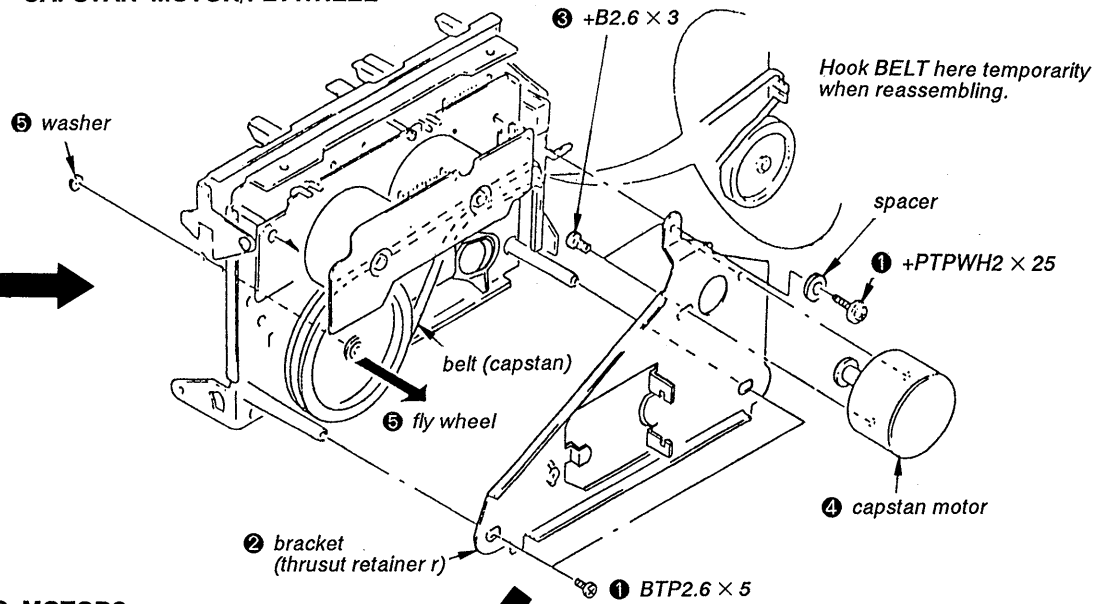
- ② Push LEVER (LIFTER) in the direction of arrow and remove ORNAMENTAL PLATE.



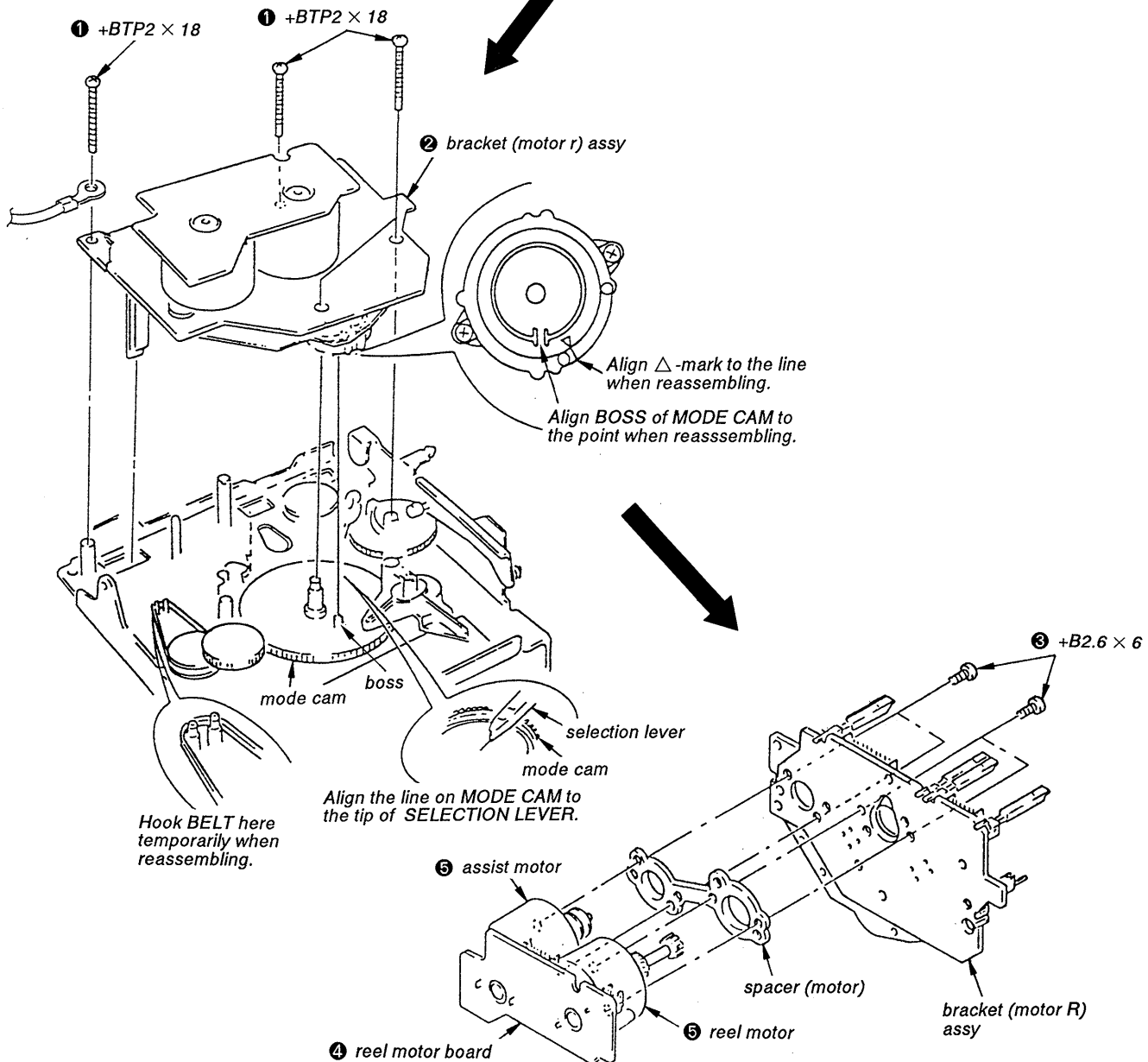
PINCH LEVER



CAPSTAN MOTOR/FLYWHEEL



REEL AND MOTORS



SECTION 3 MECHENICAL ADJUSTMENTS

PRECAUTION

- Clean the following parts with a denatured-alcohol-moistened swab :

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers
- Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.

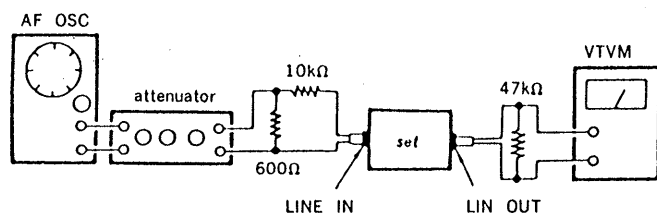
Torque Measurement

Torque	Torque meter	Meter reading
Forward	CQ-102C	30—60g•cm (0.42—0.83oz•inch)
Forward back tension	CQ-102C	1—5g•cm (0.014—0.069oz•inch)
FF/REW	CQ-201B	70—120g•cm (0.97—1.68oz•inch)

SECTION 4 ELECTRICAL ADJUSTMENTS

- The adjustment should be performed in the publication (Be sure to make playback adjustment at first.)
- The adjustment and measurement should be performed for both L-CH and R-CH.
 - Switch position
DOLBY NR switch: OFF
TIMER switch: OFF
MPX FILTER switch: OFF
 - Standard record position
Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level as follows.

—Record mode—



•Standard Input Level

Input terminal	LINE IN
source impedance	10kΩ
input signal level	0.25V (−10dB)

•Standard Output Level

Output terminal	LINE OUT
load impedance	47kΩ
output signal level	0.44V (−5dB)

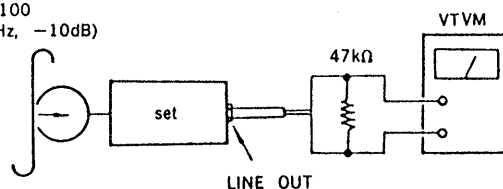
TEST TAPE

Tape	Contents	Use
P-4-A100	10kHz, −10dB	Record/Playback Head Azimuth Adujstment
WS-48B	3kHz, 0dB	Tape Speed Adujstment
P-4-L300	315Hz, 0dB	Playback Level Adjustment

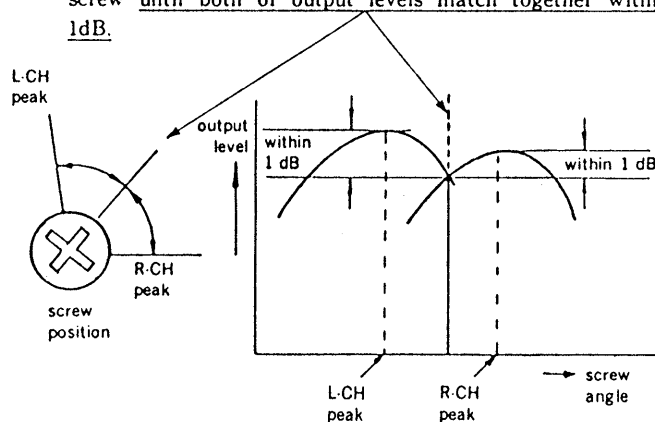
Record/Playback Head Azimuth Adjustment procedure :

- Playback Mode

test tape
P-4-A100
(10kHz, −10dB)



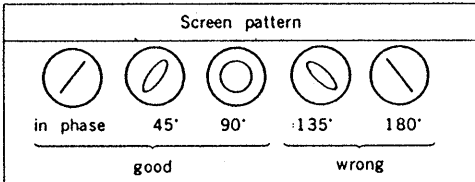
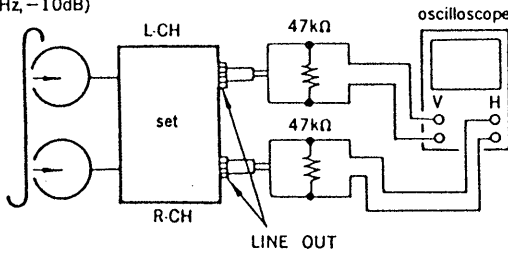
- Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.



3. Phase Check

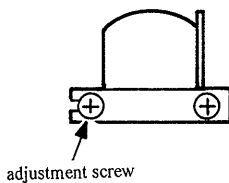
Playback mode

test tape
P-4-A100
(10kHz, -10dB)



4. After the adjustment, lock the adjustment screw with suitable locking compound.

Adjustment Location: —record/playback head—

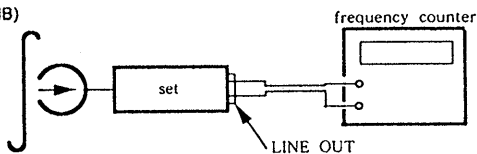


Tape Speed Adjustment

Procedure :

Playback Mode

test tape
WS-48B
(3kHz, 0dB)



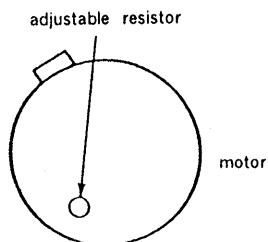
Specification :

Speed checker	Digital frequency counter
±0.5%	2,985—3,015Hz

Frequency difference between the beginning and the end of the tape should be within 0.5% (15Hz).

Adjustment Location :

adjustment the adjustable resistor of built in motor (adjustment by the insert to driver Speed in fastest that turn the clockwise.)

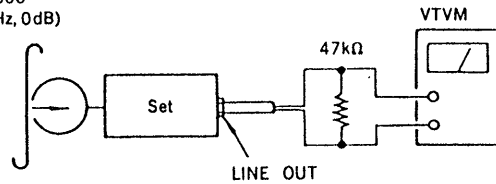


Playback Level Adjustment

Procedure :

Playback mode

test tape
P-4-L300
(315Hz, 0dB)



Specification :

Adjust RV101, 201 so that within adjustment level as follows.

LINE OUT level : 0.41 to 0.46V

(-5.5 to -4.5dB)

Level Difference between Channels: Within 0.5dB

Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

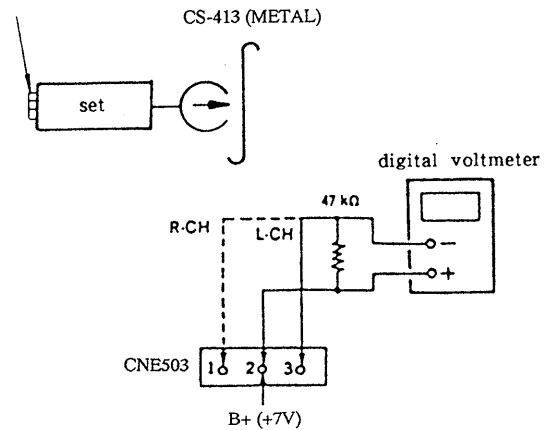
Bias Consumption Current Adjustment

Bias Consumption current adjustment is necessary to check before record bias adjustment.

The bias consumption current is wrong, record bias adjustment should do over again.

1. Connect CNE503 with digital volt meter.
2. Adjust T101, 201 to minimum reading of digital volt meter.

Reccord Mode
LINE IN
(no signal)



Adjust T101, 201 so That the minimum of digital volt meter.

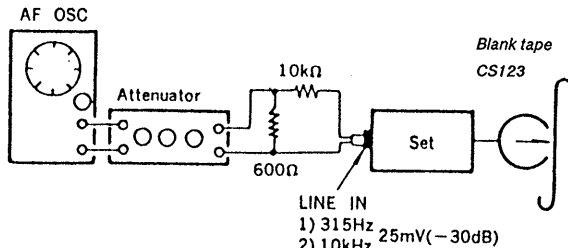
Record Bias Adjustment

Setting :

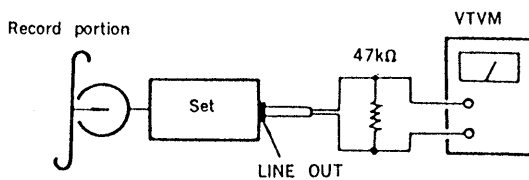
REC LEVEL knob shall be the specified record position.

Procedure :

1. Record Mode



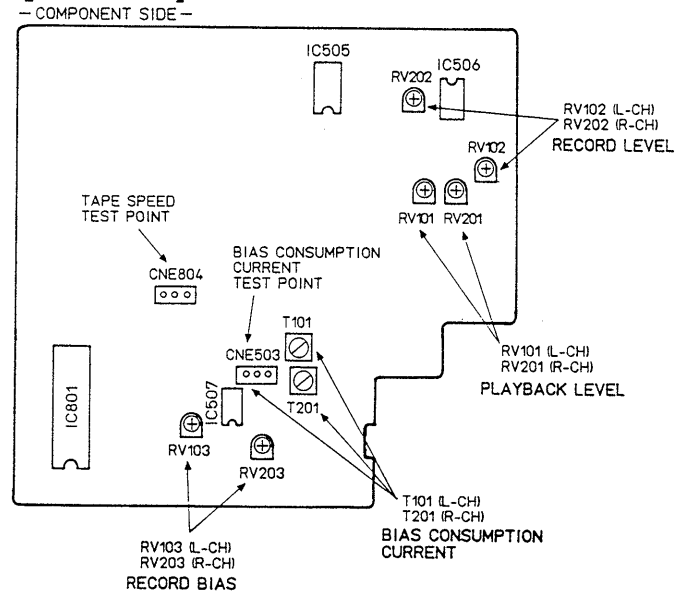
2. Playback Mode



Adjust RV103, 203 so that playback output of 10kHz is $0 \pm 0.5\text{dB}$ relative to that of 315Hz.

Adjustment Location : main board

【MAIN BOARD】



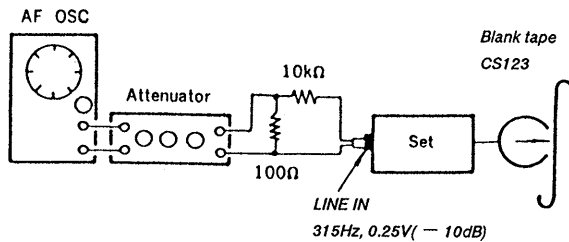
Record Level Adjustment

Setting :

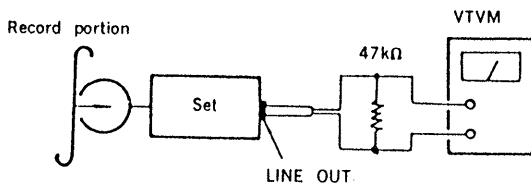
REC LEVEL knob shall be at the specified record position.

Procedure :

1. Record Mode



2. Playback Mode



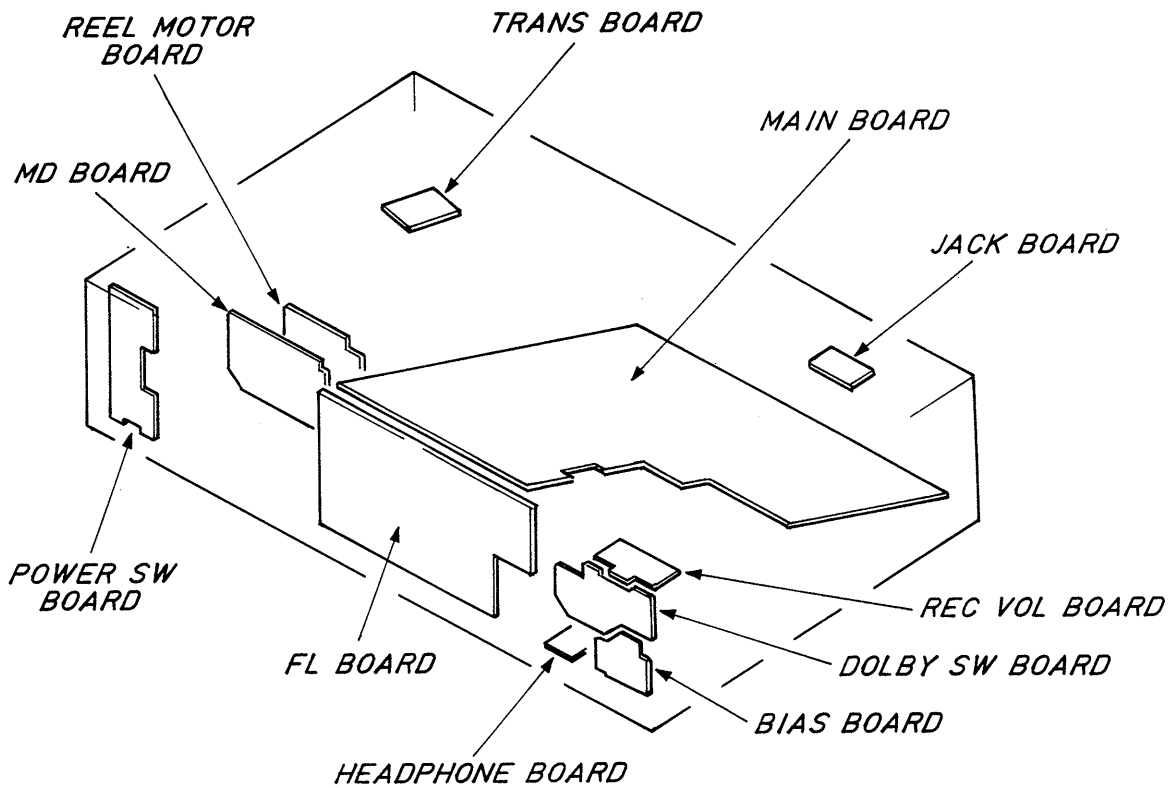
Specification:

Adjust RV102, 202 so that with in adjustment level as follows.

LINE OUT Level: CS-123
0.41 to 0.46V
(-5.5 to -4.5dB)

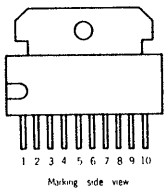
SECTION 5 DIAGRAMS

• Circuit Boards Location

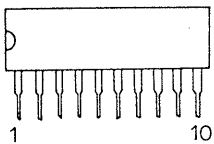


• Semiconductor Lead Layouts

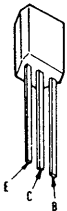
BA6219B



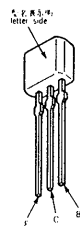
LB1641



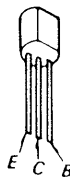
**DTA114ES
DTC114ES
DTC143TS
2SC2603-EF
2SD2144S**



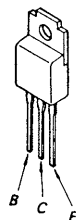
**2SA1175-HFE
2SA1317-STU
2SD1020-HFE**



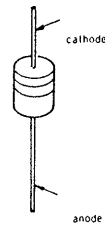
**2SA1409-TP
2SC945-P
2SB1116A-L**



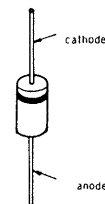
**2SB1187-EF
2SD1761-EF**



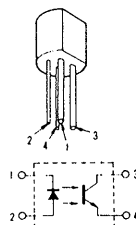
**HZS6A1L
HZS6C3L
UZL-7H1
UZL-12H1
1SS202-1**



10E2N



GP2S22B



5-1. PRINTED WIRING BOARDS

• See page 10 for Circuit boards Location and Semiconductor Lead Layouts.

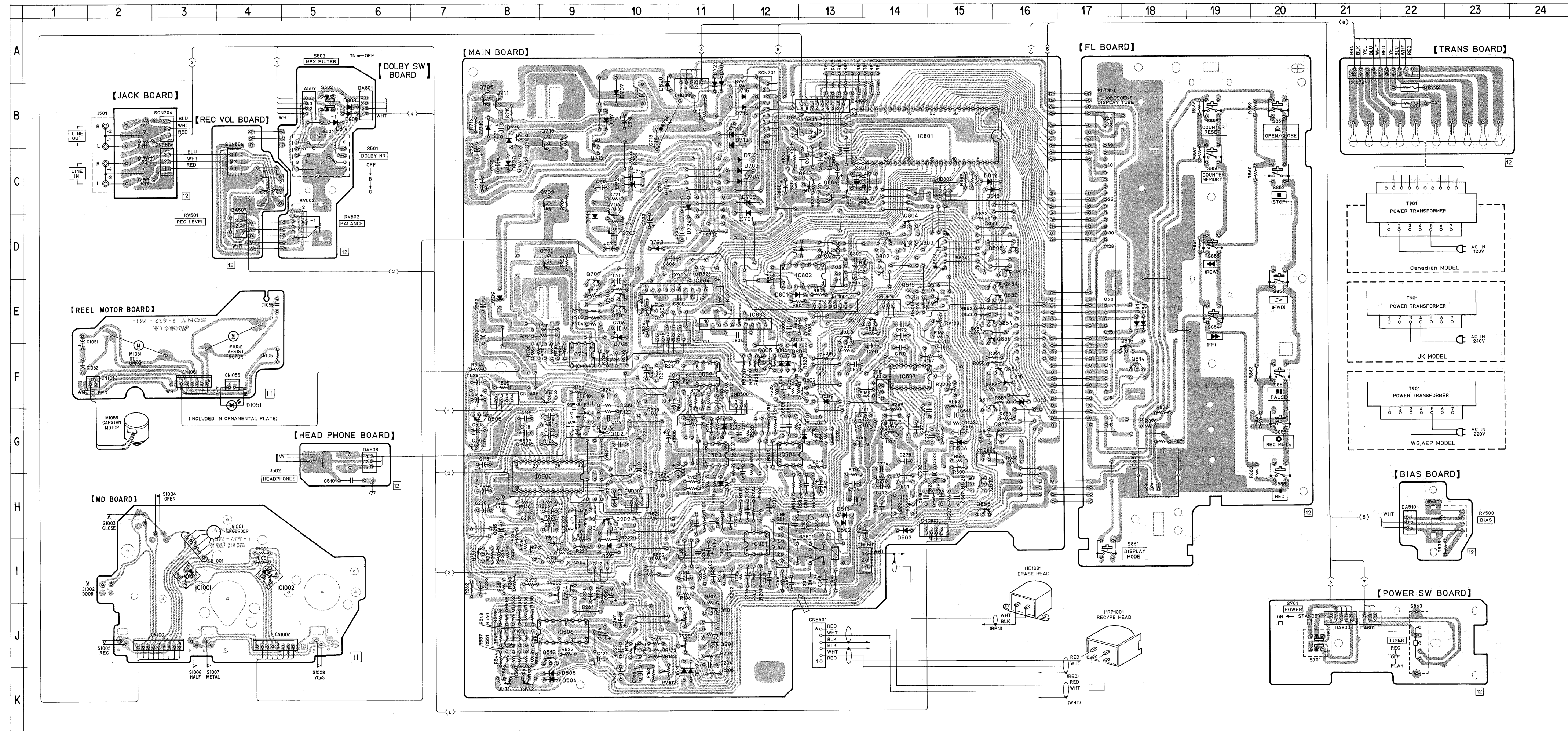
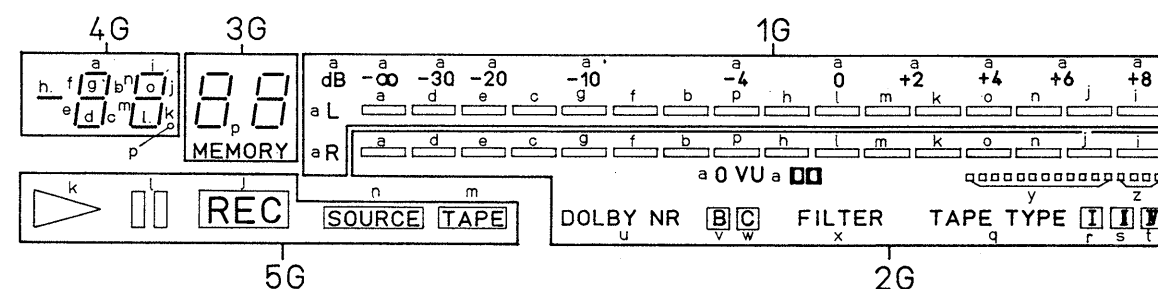
Note on Printed Wiring Board:

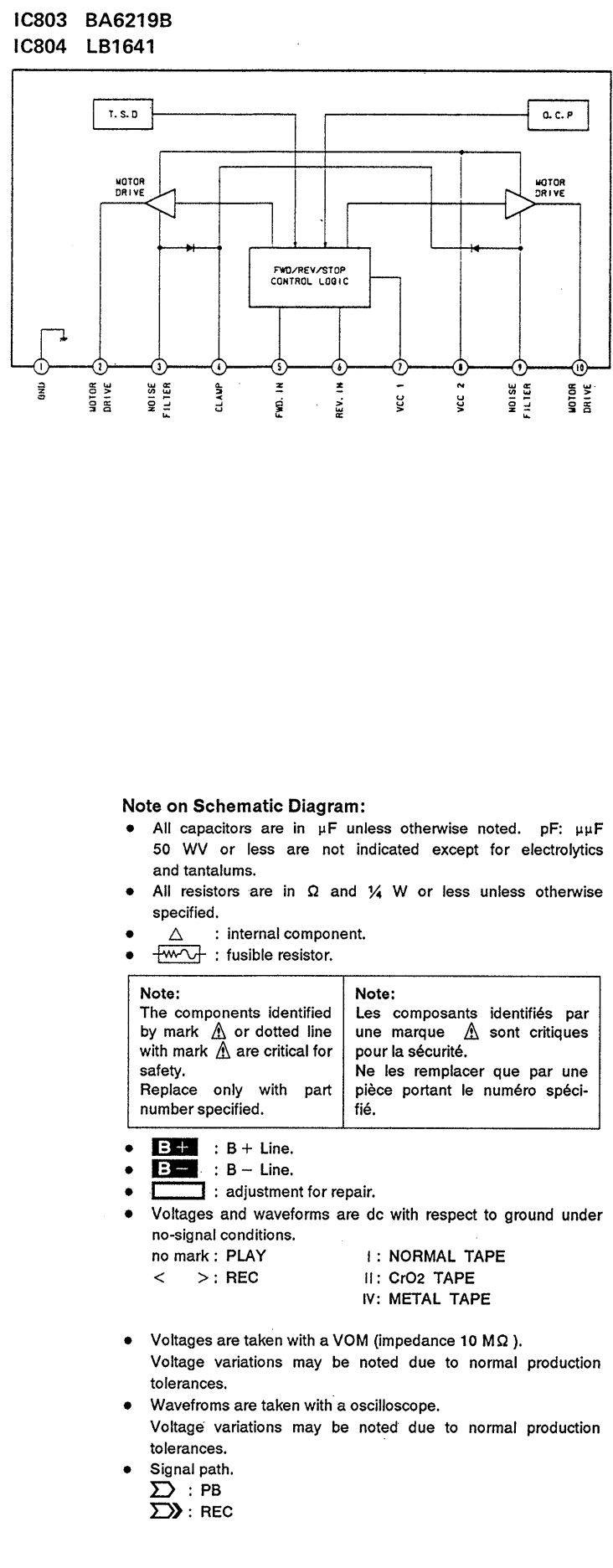
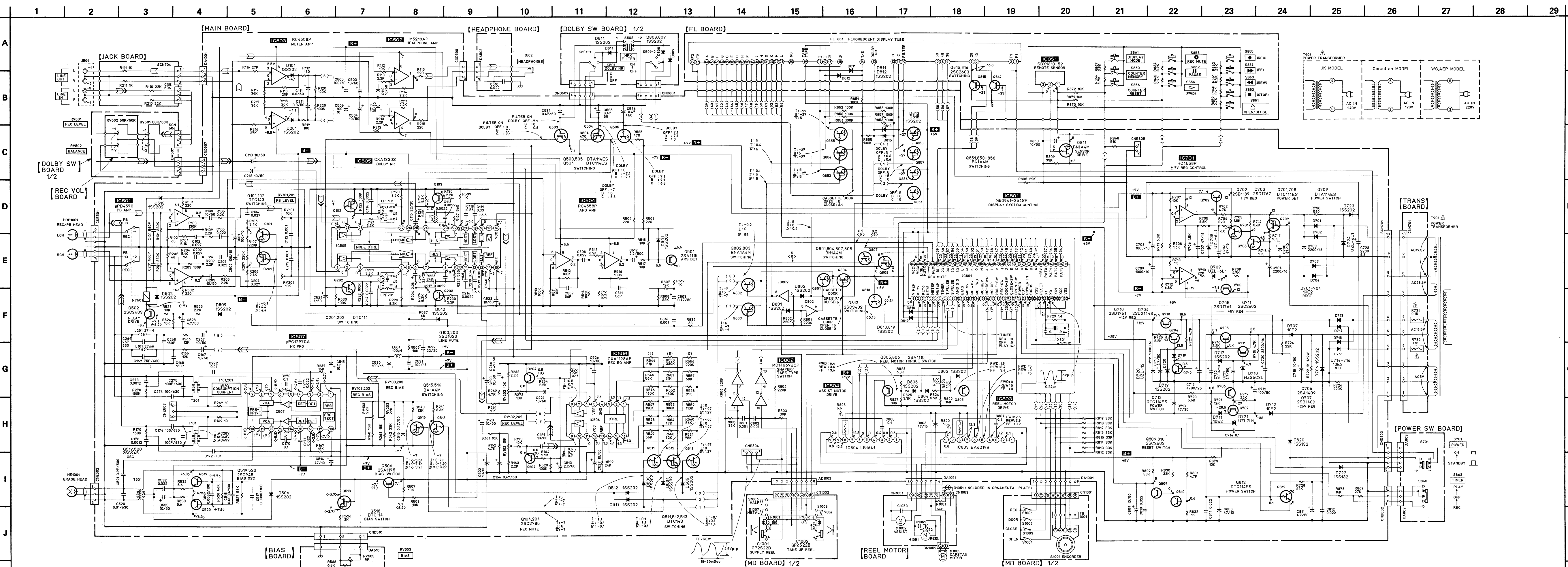
- : parts extracted from the component side.
- : parts mounted on the conductor side.
- : indicates side identified with part number.

Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D101	H-11	IC803	E-12
D201	G-11	IC804	E-11
D501	G-13	IC851	G-18
D502	I-13	IC1001	I-3
D503	I-14	IC1002	I-4
D504	K-9		
D505	K-9	Q101	J-11
D506	G-15	Q102	G-10
D509	G-13	Q103	I-9
D510	I-10	Q104	J-10
D511	K-11	Q201	J-11
D512	K-11	Q202	H-10
D513	H-13	Q203	I-8
D701	C-12	Q204	J-9
D702	C-12	Q501	G-13
D703	C-12	Q502	F-13
D704	C-12	Q503	G-9
D706	B-11	Q504	G-8
D707	B-10	Q505	G-8
D708	F-10	Q506	F-13
D709	E-8	Q511	K-8
D710	B-8	Q512	K-9
D711	D-10	Q513	K-8
D712	C-12	Q515	E-14
D713	C-12	Q516	E-15
D714	C-12	Q518	E-14
D715	B-12	Q519	H-15
D716	B-12	Q520	H-15
D717	B-10	Q701	E-10
D719	C-8	Q702	D-9
D720	C-8	Q703	D-9
D721	C-10	Q704	C-8
D722	B-11	Q705	B-8
D723	C-10	Q706	C-10
D724	D-11	Q707	C-10
D801	E-13	Q708	E-10
D802	D-13	Q709	E-9
D803	F-13	Q710	C-9
D804	F-12	Q711	B-8
D805	F-12	Q712	C-10
D808	B-6	Q801	D-14
D809	B-6	Q802	E-14
D811	E-18	Q803	D-14
D812	E-18	Q804	D-14
D813	G-16	Q805	F-12
D814	B-6	Q806	E-10
D815	F-16	Q807	E-16
D818	C-16	Q808	D-16
D819	C-16	Q809	C-13
D820	B-11	Q810	C-13
D1051	G-4	Q811	G-16
		Q812	B-13
		Q813	B-13
		Q814	F-18
		Q815	F-18
		Q851	E-16
		Q853	E-16
		Q854	E-16
		Q855	F-16
		Q856	F-16
		Q857	G-16
		Q858	H-15
IC501	I-12		
IC502	F-11		
IC503	G-11		
IC504	G-12		
IC505	H-9		
IC506	J-9		
IC507	F-14		
IC701	F-9		
IC801	C-14		
IC802	E-13		

FLT851 FLUORESCENT DISPLAY TUBE





SECTION 6

EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.



- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.


- Color Indication of Appearance Parts
Example:

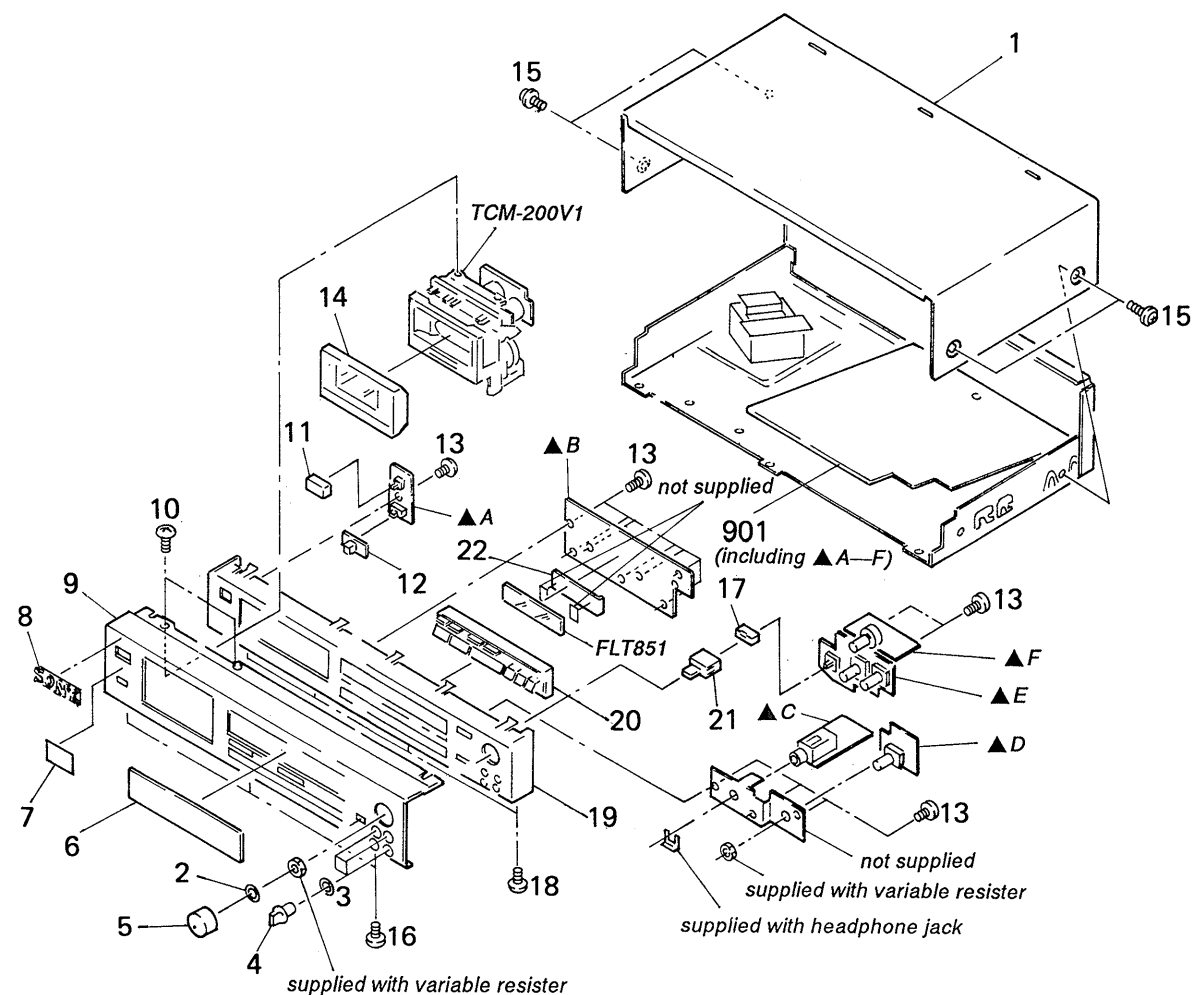
(RED) ... KNOB, BALANCE (WHITE)

↑
Cabinet's Color↑
Parts' Color

- WG: West Germany model

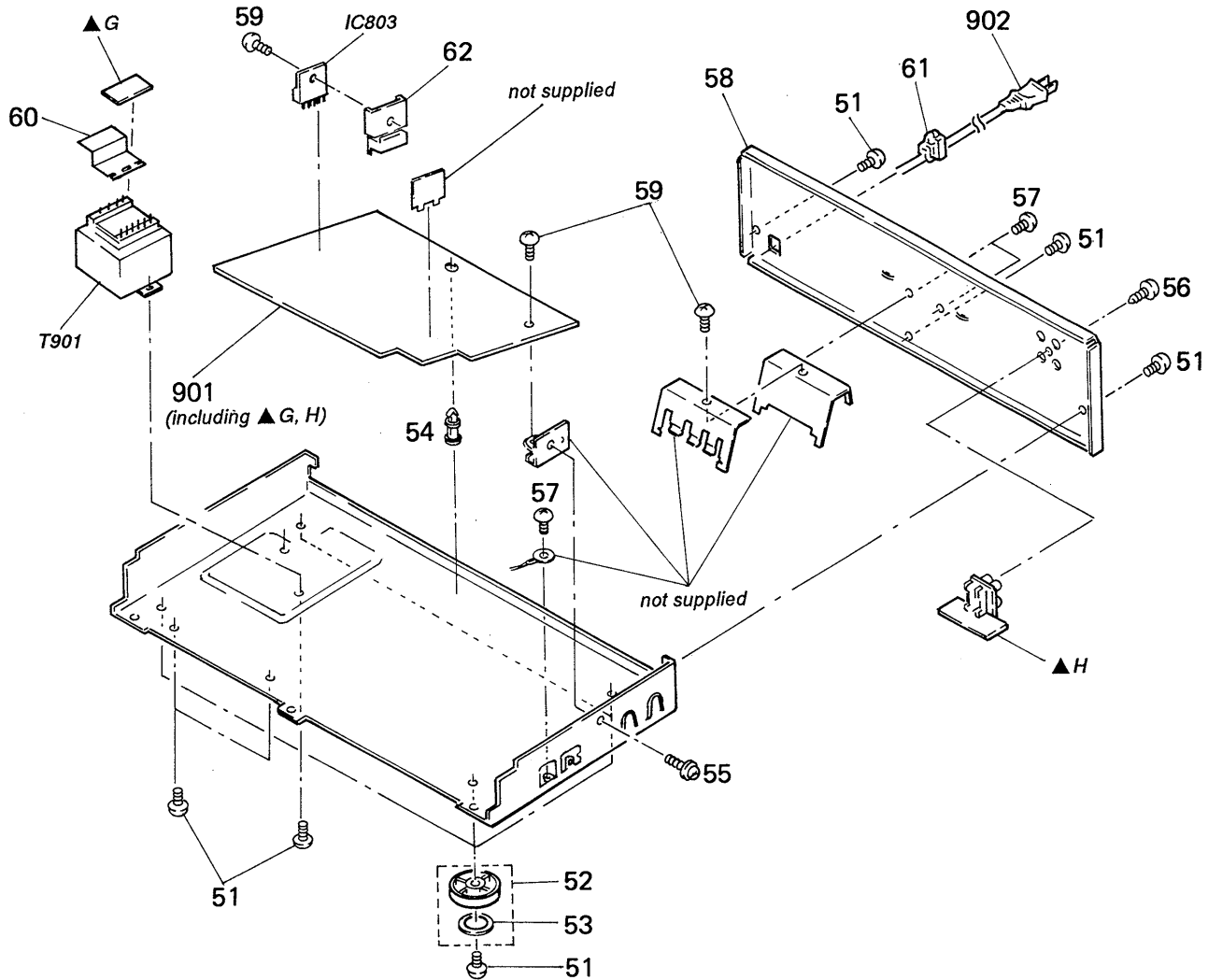
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(1) CABINET SECTION

No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	3-332-578-61	CASE		13	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
2	3-350-440-01	SPRING		14	X-3304-977-1	LID ASSY, CASSETTE	
3	3-356-957-01	SPRING		15	3-704-366-01	SCREW (CASE) (M3X8)	
4	3-350-495-01	KNOB (VOL)		16	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
5	X-3304-973-1	KNOB (R) ASSY		17	4-864-307-00	RING	
6	3-350-838-21	WINDOW (M)		18	7-682-548-09	SCREW +BVTT 3X8 (S)	
7	*3-703-710-41	STICKER, SONY SYMBOL (12)		19	3-350-842-11	PANEL (BASE)	
8	4-908-848-01	EMBLEM, SONY		20	3-356-975-11	BUTTON	
9	3-356-977-51	(AEP,UK,WG)...PANEL, FRONT		21	3-304-926-11	KNOB (A), PUSH	
	3-356-977-61	(Canadian)...PANEL, FRONT		22	*3-350-824-01	HOLDER (FL)	
10	7-682-547-04	SCREW +BVTT 3X6 (S)		901	*A-2006-272-A	MOUNTED PCB, MAIN	
11	4-922-921-01	BUTTON (POWER)					
12	4-931-421-11	KNOB (T & S)					

(2) PANEL SECTION



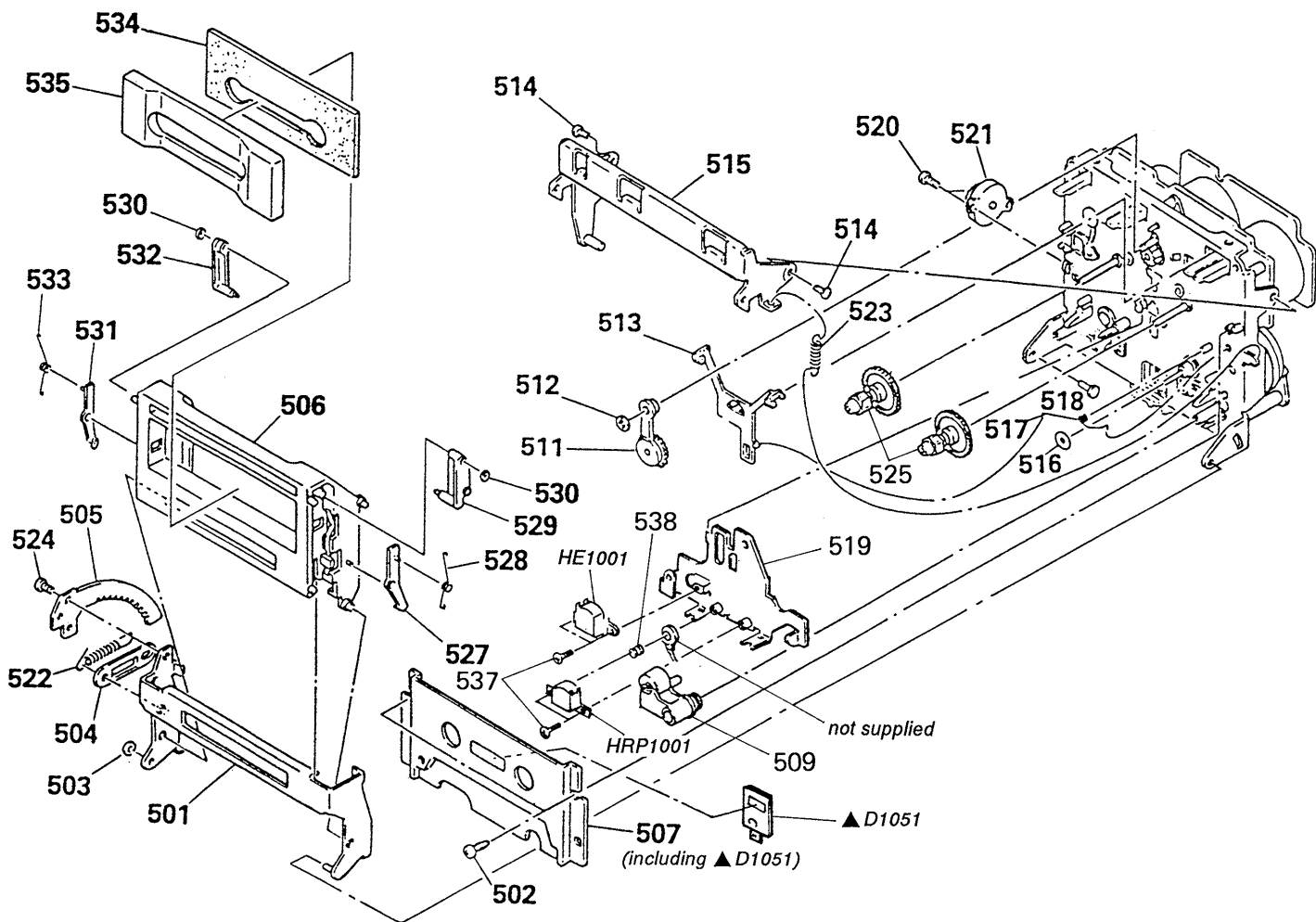
No.	Part No.	Description	Remarks
51	7-682-548-09	SCREW +BVTT 3X8 (S)	
52	X-3304-938-2	FOOT ASSY	
53	4-923-836-11	CUSHION	
54	*3-669-610-00	SPACER	
55	3-704-366-31	SCREW (CASE) (M3X6)	
56	7-621-849-00	SCREW, TAPPING	
57	7-682-547-09	SCREW +BVTT 3X6 (S)	
58	*3-356-980-21	(UK).....PANEL, BACK	
	*3-356-980-11	(AEP,UK).....PANEL, BACK	
	*3-356-980-31	(Canadian)....PANEL, BACK	
59	7-682-547-04	SCREW +BVTT 3X6 (S)	
60	*3-337-136-11	COVER, TRANSFORMER SAFETY	

No.	Part No.	Description	Remarks
61	*3-703-244-00	(AEP,UK,WG)....BUSHING (2104), CORD	
	*3-703-571-12	(Canadian)....BUSHING (S)(4516), CORD	
62	*3-356-925-01	HEAT SINK	
902	▲.1-551-506-XX	(Canadian)....CORD, POWER	
	▲.1-555-795-00	(AEP,WG).....CORD, POWER	
	▲.1-556-035-00	(UK).....CORD, POWER	
T901	▲.1-450-099-11	(AEP,UK,WG)...TRANSFORMER, POWER	
T901	▲.1-450-100-11	(Canadian)....TRANSFORMER, POWER	

Note:
The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

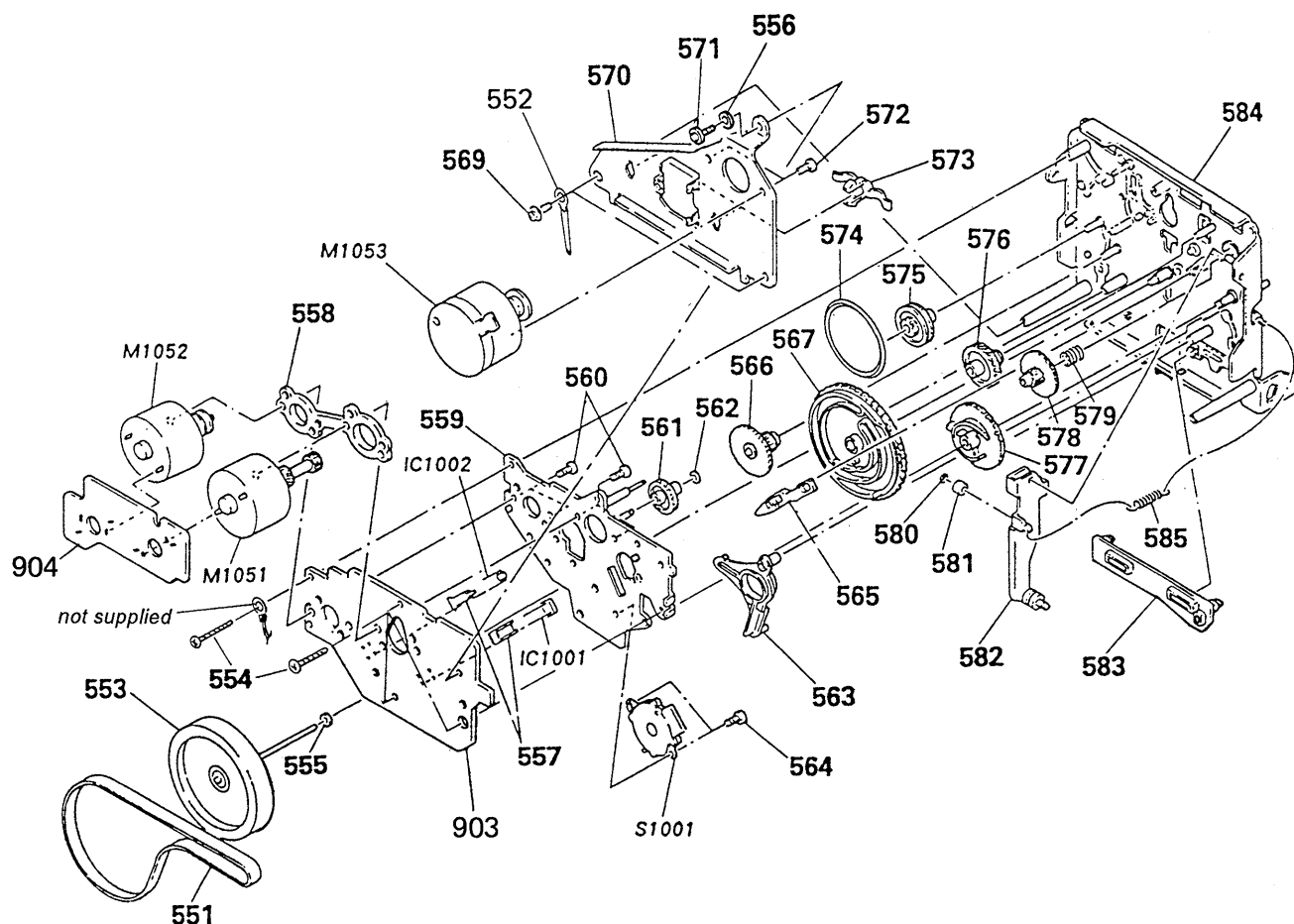
Note:
Les composants identifiés par une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(3) MECHANISM SECTION ① (TCM-200V1)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
501	X-3356-612-1	HOLDER (B) ASSY, CASSETTE		521	3-712-786-01	DAMPER, OIL	
502	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S		522	3-356-626-01	SPRING, TENSION	
503	3-558-708-21	WASHER, STOPPER		523	3-356-625-01	SPRING, TENSION	
504	*3-356-717-01	LEVER (JOINT)		524	7-621-775-10	SCREW +B 2.6X4	
505	3-356-708-01	GEAR (SOFT EJECT)		525	X-3356-627-1	GEAR ASSY	
506	X-3356-611-1	HOLDER (A) ASSY, CASSETTE		527	3-356-930-01	LEVER (RA)	
507	X-3356-613-1	PLATE ASSY, ORNAMENTAL		528	3-356-926-01	SPRING (RIGHT), TORSION	
509	X-3356-649-1	LEVER (PINCH LEVER T) ASSY		529	3-356-931-01	LEVER (RB)	
511	X-3356-641-1	LEVER (FR2) ASSY		530	3-356-946-01	BUSHING	
512	3-669-465-00	WASHER (1.5), STOPPER		531	3-356-932-01	LEVER (LA)	
513	3-356-614-01	SLIDER (BRAKE)		532	3-356-933-01	LEVER (LB)	
514	3-356-601-11	SCREW, STEP		533	3-356-927-01	SPRING (LEFT), TORSION	
515	*X-3356-608-1	LEVER (LIFTER) ASSY		534	3-356-731-01	ABSORBENT, VIBRATION	
516	3-356-713-01	WASHER		535	3-356-928-01	PLATE (A), ORNAMENTAL	
517	3-356-619-01	SPRING (B), TORSION		537	7-621-772-20	SCREW +B 2X5	
518	3-356-710-01	SHAFT (LEFT) (CASSETTE HOLDER)		538	3-362-238-01	SPRING (VH), COMPRESSION	
519	X-3356-647-1	SLIDER (HEAD CHASSIS V1) ASSY		D1051	8-719-980-85	DIODE SLF-325C	
520	7-621-255-20	SCREW +BVT 2X4 (S)		HE1001	1-543-535-11	HEAD, MAGNETIC (ERASE)	
				HRP1001	1-543-537-11	HEAD, MAGNETIC (REC/PB)	

(4) MECHANISM SECTION② (TCM-200V1)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
551	3-356-744-01	BELT (CAPSTAN V)		572	7-621-775-00	SCREW +B 2.6X3	
552	*3-701-822-00	HOLDER, WIRE		573	3-575-321-00	RETAINER, THRUST, CAPSTAN	
553	X-3356-642-1	FLYWHEEL (R FWD) ASSY		574	3-356-603-01	BELT (MODE)	
554	3-355-801-01	SCREW (BTP 2X18)		575	3-356-607-01	PULLEY (MODE)	
555	3-356-705-01	WASHER (CAPSTAN)		576	3-356-703-01	GEAR (COMMUNICATION C)	
556	*3-356-718-01	SPACER (THRUST RETAINER R)		577	3-356-616-01	GEAR (LOADING CAM)	
557	3-356-631-01	HOLDER (SENSOR)		578	3-356-609-01	GEAR (LOADING)	
558	*3-356-628-01	SPACER (MOTOR)		579	3-356-605-01	SPRING, COMPRESSION	
559	*X-3356-602-4	BRACKET (MOTOR R) ASSY		580	3-558-708-11	WASHER, STOPPER	
560	7-621-773-95	SCREW +B 2.6X6		581	3-356-630-01	ROLLER (LOADING)	
561	3-356-702-01	GEAR (COMMUNICATION B)		582	*X-3356-606-1	LEVER (LOADING) ASSY	
562	3-669-465-00	WASHER (1.5), STOPPER		583	3-356-653-01	SLIDER (PAUSE)	
563	3-356-613-01	LEVER (MODE)		584	X-3356-644-1	CHASSIS COMPLETE ASSY, MECH	
564	7-621-772-20	SCREW +B 2X5		585	3-356-624-01	SPRING, TENSION	
565	3-356-617-01	LEVER (SELECTION)					
566	3-356-606-01	GEAR (MODE)		903	*1-632-740-11	PC BOARD, MD	
567	3-356-747-01	GEAR (MODE CAM C)		904	*1-632-741-11	PC BOARD, REAL MOTOR	
569	7-685-132-19	SCREW +BTP 2.6X5 TYPE2 N-S		M1051	X-3356-638-1	MOTOR (REEL R) ASSY	
570	*3-356-629-01	BRACKET (THRUST RETAINER R)		M1052	X-3356-604-1	MOTOR (ASSIST) ASSY	
571	3-356-707-01	SCREW (+PTPHW 2X25)		M1053	X-3356-646-1	MOTOR (CAPSTAN V1) ASSY	
				S1001	1-466-238-11	ENCODER, ROTARY	

SECTION 7

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:MF: μ F, PF: μ MF.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORSIn each case, U: μ , for example:UA....: μ A...., UPA....: μ PA....,UPC....: μ PC, UPD....: μ PD...

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- WG: West Germany model

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
901	*A-2006-272-A	MOUNTED PCB, MAIN	C217	1-130-475-00	MYLAR 0.0022MF 5% 50V
902	Δ 1-551-506-XX	(Canadian)...CORD, POWER	C218	1-136-174-00	FILM 0.56MF 5% 50V
	Δ 1-555-795-00	(AEP,WG).....CORD, POWER	C219	1-136-171-00	FILM 0.33MF 5% 50V
	Δ 1-556-035-00	(UK).....CORD, POWER	C220	1-123-875-11	ELECT 10MF 20% 50V
903	*1-632-740-11	PC BOARD, MD	C221	1-123-875-11	ELECT 10MF 20% 50V
904	*1-632-741-11	PC BOARD, REAL MOTOR	C266	1-124-902-00	ELECT 0.47MF 20% 50V
C101	1-130-468-00	MYLAR 560PF 5% 50V	C267	1-123-875-11	ELECT 10MF 20% 50V
C102	1-130-488-00	MYLAR 0.027MF 5% 50V	C268	1-162-284-31	CERAMIC 150PF 10% 50V
C103	1-124-657-00	ELECT 10MF 20% 50V	C269	1-136-273-91	FILM 75PF 5% 630V
C104	1-130-488-00	MYLAR 0.027MF 5% 50V	C270	1-136-165-00	FILM 0.1MF 5% 50V
C105	1-161-494-00	CERAMIC 0.022MF 25V	C271	1-136-157-00	FILM 0.022MF 5% 50V
C110	1-123-875-11	ELECT 10MF 20% 50V	C272	1-136-153-00	FILM 0.01MF 5% 50V
C111	1-123-382-00	ELECT 3.3MF 20% 50V	C273	1-130-472-00	MYLAR 0.0012MF 5% 50V
C112	1-162-294-31	CERAMIC 0.001MF 10% 50V	C274	1-136-433-11	FILM 100PF 5% 630V
C113	1-123-875-11	ELECT 10MF 20% 50V	C275	1-136-433-11	FILM 100PF 5% 630V
C114	1-161-375-00	CERAMIC 0.0022MF 20% 16V	C501	1-124-443-00	ELECT 100MF 20% 10V
C115	1-126-233-11	ELECT 22MF 20% 25V	C502	1-124-443-00	ELECT 100MF 20% 10V
C116	1-130-475-00	MYLAR 0.0022MF 5% 50V	C503	1-123-875-11	ELECT 10MF 20% 50V
C117	1-130-475-00	MYLAR 0.0022MF 5% 50V	C504	1-123-875-11	ELECT 10MF 20% 50V
C118	1-136-174-00	FILM 0.56MF 5% 50V	C505	1-124-443-00	ELECT 100MF 20% 10V
C119	1-136-171-00	FILM 0.33MF 5% 50V	C506	1-124-443-00	ELECT 100MF 20% 10V
C120	1-123-875-11	ELECT 10MF 20% 50V	C507	1-162-217-31	CERAMIC 56PF 5% 50V
C121	1-123-875-11	ELECT 10MF 20% 50V	C508	1-161-494-00	CERAMIC 0.022MF 25V
C166	1-124-902-00	ELECT 0.47MF 20% 50V	C510	1-161-494-00	CERAMIC 0.022MF 30% 25V
C167	1-123-875-11	ELECT 10MF 20% 50V	C511	1-162-217-31	CERAMIC 56PF 5% 50V
C168	1-162-284-31	CERAMIC 150PF 10% 50V	C512	1-124-925-11	ELECT 2.2MF 20% 50V
C169	1-136-273-91	FILM 75PF 5% 630V	C513	1-124-925-11	ELECT 2.2MF 20% 50V
C170	1-136-165-00	FILM 0.1MF 5% 50V	C514	1-124-477-11	ELECT 47MF 20% 16V
C171	1-136-157-00	FILM 0.022MF 5% 50V	C515	1-124-446-11	ELECT 47MF 20% 10V
C172	1-136-153-00	FILM 0.01MF 5% 50V	C516	1-124-902-00	ELECT 0.47MF 20% 50V
C173	1-130-472-00	MYLAR 0.0012MF 5% 50V	C517	1-136-593-11	FILM 0.0033MF 5% 100V
C174	1-136-433-11	FILM 100PF 5% 630V	C518	1-136-593-11	FILM 0.0033MF 5% 100V
C175	1-136-433-11	FILM 100PF 5% 630V	C519	1-130-848-00	FILM 0.0082MF 5% 100V
C201	1-130-468-00	MYLAR 560PF 5% 50V	C520	1-136-601-11	FILM 0.01MF 5% 630V
C202	1-130-488-00	MYLAR 0.027MF 5% 50V	C521	1-107-045-00	MICA 3.9PF 0.5PF 500V
C203	1-124-657-00	ELECT 10MF 20% 50V	C522	1-123-875-11	ELECT 10MF 20% 50V
C204	1-130-488-00	MYLAR 0.027MF 5% 50V	C523	1-123-875-11	ELECT 10MF 20% 50V
C205	1-161-494-00	CERAMIC 0.022MF 25V	C524	1-124-791-11	ELECT 1MF 20% 50V
C210	1-123-875-11	ELECT 10MF 20% 50V	C526	1-123-875-11	ELECT 10MF 20% 50V
C211	1-123-382-00	ELECT 3.3MF 20% 50V	C527	1-123-875-11	ELECT 10MF 20% 50V
C212	1-162-294-31	CERAMIC 0.001MF 10% 50V	C528	1-124-927-11	ELECT 4.7MF 20% 50V
C213	1-123-875-11	ELECT 10MF 20% 50V	C529	1-126-233-11	ELECT 22MF 20% 25V
C214	1-161-375-00	CERAMIC 0.0022MF 20% 16V	C530	1-126-101-11	ELECT 100MF 20% 16V
C215	1-126-233-11	ELECT 22MF 20% 25V	C531	1-126-101-11	ELECT 100MF 20% 16V
C216	1-130-475-00	MYLAR 0.0022MF 5% 50V	C532	1-161-494-00	CERAMIC 0.022MF 25V

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description
C533	1-123-875-11	ELECT	10MF	20%	50V	D101	8-719-107-94	DIODE 1SS202-1
C534	1-124-902-00	ELECT	0.47MF	20%	50V	D201	8-719-107-94	DIODE 1SS202-1
C535	1-124-902-00	ELECT	0.47MF	20%	50V	D501	8-719-107-94	DIODE 1SS202-1
C536	1-124-902-00	ELECT	0.47MF	20%	50V	D502	8-719-107-94	DIODE 1SS202-1
C703	1-124-556-11	ELECT	2200MF	20%	16V	D503	8-719-107-94	DIODE 1SS202-1
C704	1-124-556-11	ELECT	2200MF	20%	16V	D504	8-719-107-94	DIODE 1SS202-1
C705	1-124-477-11	ELECT	47MF	20%	16V	D505	8-719-107-94	DIODE 1SS202-1
C706	1-124-477-11	ELECT	47MF	20%	16V	D506	8-719-107-94	DIODE 1SS202-1
C707	1-124-477-11	ELECT	47MF	20%	16V	D509	8-719-107-94	DIODE 1SS202-1
C708	1-124-473-11	ELECT	1000MF	20%	10V	D510	8-719-107-94	DIODE 1SS202-1
C709	1-124-473-11	ELECT	1000MF	20%	10V	D511	8-719-107-94	DIODE 1SS202-1
C710	1-124-927-11	ELECT	4.7MF	20%	50V	D512	8-719-107-94	DIODE 1SS202-1
C711	1-124-360-00	ELECT	1000MF	20%	16V	D513	8-719-107-94	DIODE 1SS202-1
C712	1-124-122-11	ELECT	100MF	20%	50V	D701	8-719-200-77	DIODE 10E2N
C713	1-124-910-11	ELECT	47MF	20%	35V	D702	8-719-200-77	DIODE 10E2N
C714	1-164-159-11	CERAMIC	0.1MF		50V	D703	8-719-200-77	DIODE 10E2N
C715	1-124-564-11	ELECT	4700MF	20%	25V	D704	8-719-200-77	DIODE 10E2N
C718	1-123-875-11	ELECT	10MF	20%	50V	D706	8-719-107-94	DIODE 1SS202-1
C720	1-124-887-00	ELECT	3300MF	20%	16V	D707	8-719-200-77	DIODE 10E2N
C721	1-124-927-11	ELECT	4.7MF	20%	50V	D708	8-719-933-33	DIODE HZS6A1L
C722	1-124-473-11	ELECT	1000MF	20%	10V	D709	8-719-933-33	DIODE HZS6A1L
C723	1-124-893-11	ELECT	2200MF	20%	6.3V	D710	8-719-933-41	DIODE HZS6C3L
C801	1-162-294-31	CERAMIC	0.001MF	10%	50V	D711	8-719-200-77	DIODE 10E2N
C802	1-162-294-31	CERAMIC	0.001MF	10%	50V	D712	8-719-200-77	DIODE 10E2N
C803	1-124-902-00	ELECT	0.47MF	20%	50V	D713	8-719-200-77	DIODE 10E2N
C804	1-164-159-11	CERAMIC	0.1MF		50V	D714	8-719-200-77	DIODE 10E2N
C805	1-164-159-11	CERAMIC	0.1MF		50V	D715	8-719-200-77	DIODE 10E2N
C806	1-124-477-11	ELECT	47MF	20%	16V	D716	8-719-200-77	DIODE 10E2N
C808	1-124-446-11	ELECT	47MF	20%	10V	D717	8-719-107-94	DIODE 1SS202-1
C809	1-123-875-11	ELECT	10MF	20%	50V	D719	8-719-107-94	DIODE 1SS202-1
C810	1-161-494-00	CERAMIC	0.022MF		25V	D720	8-719-001-79	DIODE UZL-12H1
C811	1-124-927-11	ELECT	4.7MF	20%	50V	D721	8-719-000-93	DIODE UZL-7H1
C812	1-161-494-00	CERAMIC	0.022MF		25V	D722	8-719-107-94	DIODE 1SS202-1
C814	1-161-494-00	CERAMIC	0.022MF	30%	25V	D723	8-719-107-94	DIODE 1SS202-1
C816	1-162-294-31	CERAMIC	0.001MF	10%	50V	D724	8-719-933-33	DIODE HZS6A1L
C853	1-123-875-11	ELECT	10MF	20%	50V	D801	8-719-107-94	DIODE 1SS202-1
C1051	1-123-875-11	ELECT	10MF	20%	50V	D802	8-719-107-94	DIODE 1SS202-1
C1052	1-123-875-11	ELECT	10MF	20%	50V	D803	8-719-107-94	DIODE 1SS202-1
C1053	1-164-159-11	CERAMIC	0.1MF		50V	D804	8-719-107-94	DIODE 1SS202-1
CN1001	1-506-615-11	PIN, CONNECTOR 9P				D805	8-719-107-94	DIODE 1SS202-1
CN1002	1-564-501-11	PIN, CONNECTOR 8P				D808	8-719-107-94	DIODE 1SS202-1
CN1051*	1-564-499-11	PIN, CONNECTOR 6P				D809	8-719-107-94	DIODE 1SS202-1
CN1052*	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P				D811	8-719-107-94	DIODE 1SS202-1
CN1053*	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P				D812	8-719-107-94	DIODE 1SS202-1
CND507*	1-564-337-71	PIN, CONNECTOR 3P				D813	8-719-107-94	DIODE 1SS202-1
CND508*	1-564-337-61	PIN, CONNECTOR 3P				D814	8-719-107-94	DIODE 1SS202-1
CND509*	1-564-338-00	PIN, CONNECTOR 4P				D815	8-719-107-94	DIODE 1SS202-1
CND510*	1-564-337-00	PIN, CONNECTOR 3P				D818	8-719-107-94	DIODE 1SS202-1
CND801*	1-564-338-71	PIN, CONNECTOR 4P				D819	8-719-107-94	DIODE 1SS202-1
CND802*	1-564-337-81	PIN, CONNECTOR 3P				D820	8-719-107-94	DIODE 1SS202-1
CND803*	1-564-339-00	PIN, CONNECTOR 5P				D1051	8-719-980-85	DIODE SLF-325C
CNE501*	1-564-509-11	PLUG, CONNECTOR 6P				FLT851	1-519-596-11	INDICATOR TUBE, FLUORESCENT
CNE502*	1-564-506-11	PLUG, CONNECTOR 3P				HE1001	1-543-535-11	HEAD, MAGNETIC (ERASE)
CNE503*	1-564-506-11	PLUG, CONNECTOR 3P				HRP1001	1-543-537-11	HEAD, MAGNETIC (REC/PB)
CNE506*	1-564-506-11	PLUG, CONNECTOR 3P						
CNE804*	1-564-506-11	PLUG, CONNECTOR 3P						
CNE805*	1-564-505-11	PLUG, CONNECTOR 2P						
CNN701*	1-508-882-00	BASE POST						

Ref.No.	Part No.	Description
IC501	8-759-111-44	IC UPC4570C-1
IC502	8-759-634-51	IC M5218AP
IC503	8-759-945-58	IC RC4558P
IC504	8-759-945-58	IC RC4558P
IC505	8-752-036-34	IC CXA1330S
IC506	8-752-038-02	IC CXA1198AP
IC507	8-759-106-56	IC UPC1297CA
IC701	8-759-945-58	IC RC4558P
IC801	8-759-634-99	IC M50941-354SP
IC802	8-759-240-69	IC TC4069UBP
IC803	8-759-973-95	IC BA6219B
IC804	8-759-822-09	IC LB1641
IC851	8-741-100-48	IC SBX1610-59
IC1001	8-749-920-97	PHOTO REFLECTOR GP2S22B
IC1002	8-749-920-97	PHOTO REFLECTOR GP2S22B
J501	1-565-258-11	JACK, PIN 4P (LINE IN/LINE OUT)
J502	1-507-796-71	JACK (HEADPHONES)
L101	1-410-780-11	INDUCTOR 27MMH
L201	1-410-780-11	INDUCTOR 27MMH
L501	1-408-080-00	INDUCTOR 100UH
LPF101	1-231-388-00	FILTER, LOW PASS
LPF201	1-231-388-00	FILTER, LOW PASS
M1051	X-3356-638-1	MOTOR (REEL R) ASSY
M1052	X-3356-604-1	MOTOR (ASSIST) ASSY
M1053	X-3356-646-1	MOTOR (CAPSTAN V1) ASSY
Q101	8-729-900-74	TRANSISTOR DTC143TS
Q102	8-729-900-80	TRANSISTOR DTC114ES
Q103	8-729-142-25	TRANSISTOR 2SD1020-HFE
Q104	8-729-620-05	TRANSISTOR 2SC2603-EF
Q201	8-729-900-74	TRANSISTOR DTC143TS
Q202	8-729-900-80	TRANSISTOR DTC114ES
Q203	8-729-142-25	TRANSISTOR 2SD1020-HFE
Q204	8-729-620-05	TRANSISTOR 2SC2603-EF
Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q502	8-729-620-05	TRANSISTOR 2SC2603-EF
Q503	8-729-900-61	TRANSISTOR DTA114ES
Q504	8-729-900-80	TRANSISTOR DTC114ES
Q505	8-729-900-61	TRANSISTOR DTA114ES
Q506	8-729-821-04	TRANSISTOR 2SA1317-STU
Q511	8-729-900-74	TRANSISTOR DTC143TS
Q512	8-729-900-74	TRANSISTOR DTC143TS
Q513	8-729-900-74	TRANSISTOR DTC143TS
Q515	8-729-900-80	TRANSISTOR DTC114ES
Q516	8-729-900-80	TRANSISTOR DTC114ES
Q518	8-729-900-80	TRANSISTOR DTC114ES
Q519	8-729-194-57	TRANSISTOR 2SC945-P
Q520	8-729-194-57	TRANSISTOR 2SC945-P
Q701	8-729-900-80	TRANSISTOR DTC114ES
Q702	8-729-920-97	TRANSISTOR 2SB1187-EF
Q703	8-729-920-98	TRANSISTOR 2SD1761-EF
Q704	8-729-922-37	TRANSISTOR 2SD2144S
Q705	8-729-920-98	TRANSISTOR 2SD1761-EF
Q706	8-729-141-32	TRANSISTOR 2SA1409TP
Q707	8-729-140-04	TRANSISTOR 2SB1116A-L
Q708	8-729-900-80	TRANSISTOR DTC114ES

Ref.No.	Part No.	Description
Q709	8-729-900-61	TRANSISTOR DTA114ES
Q710	8-729-920-98	TRANSISTOR 2SD1761-EF
Q711	8-729-620-05	TRANSISTOR 2SC2603-EF
Q712	8-729-900-80	TRANSISTOR DTC114ES
Q801	8-729-900-61	TRANSISTOR DTA114ES
Q802	8-729-900-61	TRANSISTOR DTA114ES
Q803	8-729-900-61	TRANSISTOR DTA114ES
Q804	8-729-900-61	TRANSISTOR DTA114ES
Q805	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q806	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q807	8-729-900-61	TRANSISTOR DTA114ES
Q808	8-729-900-61	TRANSISTOR DTA114ES
Q809	8-729-620-05	TRANSISTOR 2SC2603-EF
Q810	8-729-620-05	TRANSISTOR 2SC2603-EF
Q811	8-729-900-61	TRANSISTOR DTA114ES
Q812	8-729-900-80	TRANSISTOR DTC114ES
Q813	8-729-900-80	TRANSISTOR DTC114ES
Q814	8-729-620-05	TRANSISTOR 2SC2603-EF
Q815	8-729-620-05	TRANSISTOR 2SC2603-EF
Q851	8-729-900-61	TRANSISTOR DTA114ES
Q853	8-729-900-61	TRANSISTOR DTA114ES
Q854	8-729-900-61	TRANSISTOR DTA114ES
Q855	8-729-900-61	TRANSISTOR DTA114ES
Q856	8-729-900-61	TRANSISTOR DTA114ES
Q857	8-729-900-61	TRANSISTOR DTA114ES
Q858	8-729-900-61	TRANSISTOR DTA114ES
R101	1-247-891-00	CARBON 330K 5% 1/4W
R102	1-249-403-11	CARBON 68 5% 1/4W
R103	1-247-882-11	CARBON 130K 5% 1/4W
R104	1-247-848-11	CARBON 5.1K 5% 1/4W
R105	1-249-421-11	CARBON 2.2K 5% 1/4W
R106	1-247-840-00	CARBON 2.4K 5% 1/4W
R107	1-247-887-00	CARBON 220K 5% 1/4W
R109	1-249-421-11	CARBON 2.2K 5% 1/4W
R110	1-249-433-11	CARBON 22K 5% 1/4W
R111	1-249-417-11	CARBON 1K 5% 1/4W
R112	1-249-429-11	CARBON 10K 5% 1/4W
R113	1-249-421-11	CARBON 2.2K 5% 1/4W
R114	1-249-421-11	CARBON 2.2K 5% 1/4W
R115	1-249-409-11	CARBON 220 5% 1/4W
R116	1-249-434-11	CARBON 27K 5% 1/4W
R117	1-247-868-11	CARBON 36K 5% 1/4W
R118	1-247-862-11	CARBON 20K 5% 1/4W
R119	1-249-408-11	CARBON 180 5% 1/4W
R120	1-249-441-11	CARBON 100K 5% 1/4W
R121	1-249-423-11	CARBON 3.3K 5% 1/4W
R122	1-249-441-11	CARBON 100K 5% 1/4W
R123	1-249-428-11	CARBON 8.2K 5% 1/4W
R124	1-249-421-11	CARBON 2.2K 5% 1/4W
R125	1-249-428-11	CARBON 8.2K 5% 1/4W
R126	1-247-864-11	CARBON 24K 5% 1/4W
R127	1-249-414-11	CARBON 560 5% 1/4W
R130	1-249-421-11	CARBON 2.2K 5% 1/4W
R161	1-249-429-11	CARBON 10K 5% 1/4W
R162	1-249-425-11	CARBON 4.7K 5% 1/4W
R163	1-249-421-11	CARBON 2.2K 5% 1/4W

Ref.No.	Part No.	Description					Ref.No.	Part No.	Description				
R164	1-249-421-11	CARBON	2.2K	5%	1/4W		R516	1-249-441-11	CARBON	100K	5%	1/4W	
R166	1-249-430-11	CARBON	12K	5%	1/4W		R517	1-249-429-11	CARBON	10K	5%	1/4W	
R167	1-249-431-11	CARBON	15K	5%	1/4W		R518	1-249-429-11	CARBON	10K	5%	1/4W	
R168	1-249-432-11	CARBON	18K	5%	1/4W		R519	1-249-417-11	CARBON	1K	5%	1/4W	
R169	1-249-393-11	CARBON	10	5%	1/4W		R520	1-249-441-11	CARBON	100K	5%	1/4W	
R170	1-247-883-00	CARBON	150K	5%	1/4W		R521	1-249-425-11	CARBON	4.7K	5%	1/4W	
R173	1-249-429-11	CARBON	10K	5%	1/4W		R522	1-247-864-11	CARBON	24K	5%	1/4W	
R201	1-247-891-00	CARBON	330K	5%	1/4W		R523	1-249-429-11	CARBON	10K	5%	1/4W	
R202	1-249-403-11	CARBON	68	5%	1/4W		R524	1-249-431-11	CARBON	15K	5%	1/4W	
R203	1-247-882-11	CARBON	130K	5%	1/4W		R525	1-249-421-11	CARBON	2.2K	5%	1/4W	
R204	1-247-848-11	CARBON	5.1K	5%	1/4W		R526	1-247-842-11	CARBON	3K	5%	1/4W	
R205	1-249-421-11	CARBON	2.2K	5%	1/4W		R527	1-249-438-11	CARBON	56K	5%	1/4W	
R206	1-247-840-00	CARBON	2.4K	5%	1/4W		R528	1-249-438-11	CARBON	56K	5%	1/4W	
R207	1-247-887-00	CARBON	220K	5%	1/4W		R530	1-249-441-11	CARBON	100K	5%	1/4W	
R209	1-249-421-11	CARBON	2.2K	5%	1/4W		R531	1-247-876-11	CARBON	75K	5%	1/4W	
R210	1-249-433-11	CARBON	22K	5%	1/4W		R532	1-249-390-11	CARBON	5.6	5%	1/4W	
R211	1-249-417-11	CARBON	1K	5%	1/4W		R533	1-249-390-11	CARBON	5.6	5%	1/4W	
R212	1-249-429-11	CARBON	10K	5%	1/4W		R534	1-249-413-11	CARBON	470	5%	1/4W	
R213	1-249-421-11	CARBON	2.2K	5%	1/4W		R535	1-249-413-11	CARBON	470	5%	1/4W	
R214	1-249-421-11	CARBON	2.2K	5%	1/4W		R537	1-249-403-11	CARBON	68	5%	1/4W	
R215	1-249-409-11	CARBON	220	5%	1/4W		R538	1-249-427-11	CARBON	6.8K	5%	1/4W	
R216	1-249-434-11	CARBON	27K	5%	1/4W		R539	1-249-417-11	CARBON	1K	5%	1/4W	
R217	1-247-868-11	CARBON	36K	5%	1/4W		R540	1-249-434-11	CARBON	27K	5%	1/4W	
R218	1-247-862-11	CARBON	20K	5%	1/4W		R541	1-247-844-11	CARBON	3.6K	5%	1/4W	
R219	1-249-408-11	CARBON	180	5%	1/4W		R542	1-249-435-11	CARBON	33K	5%	1/4W	
R220	1-249-441-11	CARBON	100K	5%	1/4W		R543	1-247-858-11	CARBON	13K	5%	1/4W	
R221	1-249-423-11	CARBON	3.3K	5%	1/4W		R544	1-247-872-11	CARBON	51K	5%	1/4W	
R222	1-249-441-11	CARBON	100K	5%	1/4W		R545	1-249-438-11	CARBON	56K	5%	1/4W	
R223	1-249-428-11	CARBON	8.2K	5%	1/4W		R546	1-247-884-11	CARBON	160K	5%	1/4W	
R224	1-249-421-11	CARBON	2.2K	5%	1/4W		R547	1-247-882-11	CARBON	130K	5%	1/4W	
R225	1-249-428-11	CARBON	8.2K	5%	1/4W		R548	1-247-868-11	CARBON	36K	5%	1/4W	
R226	1-247-864-11	CARBON	24K	5%	1/4W		R549	1-249-438-11	CARBON	56K	5%	1/4W	
R227	1-249-414-11	CARBON	560	5%	1/4W		R550	1-247-891-00	CARBON	330K	5%	1/4W	
R230	1-249-421-11	CARBON	2.2K	5%	1/4W		R551	1-247-872-11	CARBON	51K	5%	1/4W	
R261	1-249-429-11	CARBON	10K	5%	1/4W		R552	1-247-884-11	CARBON	160K	5%	1/4W	
R262	1-249-425-11	CARBON	4.7K	5%	1/4W		R553	1-247-890-11	CARBON	300K	5%	1/4W	
R263	1-249-421-11	CARBON	2.2K	5%	1/4W		R554	1-249-437-11	CARBON	47K	5%	1/4W	
R264	1-249-421-11	CARBON	2.2K	5%	1/4W		R555	1-247-874-11	CARBON	62K	5%	1/4W	
R266	1-249-430-11	CARBON	12K	5%	1/4W		R556	1-247-887-00	CARBON	220K	5%	1/4W	
R267	1-249-431-11	CARBON	15K	5%	1/4W		R557	1-249-439-11	CARBON	68K	5%	1/4W	
R268	1-249-432-11	CARBON	18K	5%	1/4W		R558	1-247-878-00	CARBON	91K	5%	1/4W	
R269	1-249-393-11	CARBON	10	5%	1/4W		R559	1-247-880-11	CARBON	110K	5%	1/4W	
R270	1-247-883-00	CARBON	150K	5%	1/4W		R560	1-249-438-11	CARBON	56K	5%	1/4W	
R273	1-249-429-11	CARBON	10K	5%	1/4W		R702	1-249-425-11	CARBON	4.7K	5%	1/4W	
R501	1-249-409-11	CARBON	220	5%	1/4W		R703	1-249-420-11	CARBON	1.8K	5%	1/4W	
R502	1-249-409-11	CARBON	220	5%	1/4W		R704	1-249-412-11	CARBON	390	5%	1/4W	
R503	1-249-409-11	CARBON	220	5%	1/4W		R705	1-249-427-11	CARBON	6.8K	5%	1/4W	
R504	1-249-409-11	CARBON	220	5%	1/4W		R706	1-249-419-11	CARBON	1.5K	5%	1/4W	
R506	1-249-429-11	CARBON	10K	5%	1/4W		R707	1-249-429-11	CARBON	10K	5%	1/4W	
R507	1-249-429-11	CARBON	10K	5%	1/4W		R708	1-247-836-11	CARBON	1.6K	5%	1/4W	
R508	1-249-429-11	CARBON	10K	5%	1/4W		R709	1-249-425-11	CARBON	4.7K	5%	1/4W	
R510	1-249-441-11	CARBON	100K	5%	1/4W		R710	1-249-409-11	CARBON	220	5%	1/4W	
R511	1-249-429-11	CARBON	10K	5%	1/4W		R711	1-249-427-11	CARBON	6.8K	5%	1/4W	
R512	1-249-441-11	CARBON	100K	5%	1/4W		R712	1-249-427-11	CARBON	6.8K	5%	1/4W	
R513	1-249-428-11	CARBON	8.2K	5%	1/4W		R713	1-249-417-11	CARBON	1K	5%	1/4W	
R514	1-249-441-11	CARBON	100K	5%	1/4W		R714	1-249-426-11	CARBON	5.6K	5%	1/4W	
R515	1-249-423-11	CARBON	3.3K	5%	1/4W		R715	1-249-425-11	CARBON	4.7K	5%	1/4W	

Note:
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description			
R716	1-249-421-11	CARBON	2.2K	5%	1/4W
R717	1-249-429-11	CARBON	10K	5%	1/4W
R718	1-249-429-11	CARBON	10K	5%	1/4W
R719	1-249-433-11	CARBON	22K	5%	1/4W
R720	1-249-426-11	CARBON	5.6K	5%	1/4W
R721	1-249-430-11	CARBON	12K	5%	1/4W
R722	1-247-752-11	CARBON	1K	5%	1/2W
R724	1-249-433-11	CARBON	22K	5%	1/4W
R725	1-249-421-11	CARBON	2.2K	5%	1/4W
R726	1-247-887-00	CARBON	220K	5%	1/4W
R727	1-249-425-11	CARBON	4.7K	5%	1/4W
R728	1-249-435-11	CARBON	33K	5%	1/4W
R729	1-247-903-00	CARBON	1M	5%	1/4W
R730	1-249-414-11	CARBON	560	5%	1/4W
R731	Δ 1-219-135-11	FUSIBLE	0.15	10%	1/4W
R732	Δ 1-219-135-11	FUSIBLE	0.15	10%	1/4W
R801	1-247-887-00	CARBON	220K	5%	1/4W
R802	1-247-887-00	CARBON	220K	5%	1/4W
R803	1-249-436-11	CARBON	39K	5%	1/4W
R804	1-247-887-00	CARBON	220K	5%	1/4W
R805	1-249-436-11	CARBON	39K	5%	1/4W
R806	1-247-887-00	CARBON	220K	5%	1/4W
R807	1-249-430-11	CARBON	12K	5%	1/4W
R808	1-249-435-11	CARBON	33K	5%	1/4W
R809	1-249-435-11	CARBON	33K	5%	1/4W
R812	1-249-435-11	CARBON	33K	5%	1/4W
R813	1-249-435-11	CARBON	33K	5%	1/4W
R814	1-249-435-11	CARBON	33K	5%	1/4W
R815	1-249-435-11	CARBON	33K	5%	1/4W
R816	1-249-435-11	CARBON	33K	5%	1/4W
R817	1-249-435-11	CARBON	33K	5%	1/4W
R818	1-249-435-11	CARBON	33K	5%	1/4W
R819	1-249-435-11	CARBON	33K	5%	1/4W
R820	Δ 1-212-954-11	FUSIBLE	6.8	5%	1/2W F
R821	1-249-429-11	CARBON	10K	5%	1/4W
R822	1-249-431-11	CARBON	15K	5%	1/4W
R823	1-247-834-11	CARBON	1.3K	5%	1/4W
R824	1-249-424-11	CARBON	3.9K	5%	1/4W
R825	1-249-423-11	CARBON	3.3K	5%	1/4W
R826	1-249-427-11	CARBON	6.8K	5%	1/4W
R827	1-249-429-11	CARBON	10K	5%	1/4W
R828	Δ 1-212-952-00	FUSIBLE	5.6	5%	1/2W F
R829	1-249-435-11	CARBON	33K	5%	1/4W
R830	1-249-435-11	CARBON	33K	5%	1/4W
R831	1-249-425-11	CARBON	4.7K	5%	1/4W
R832	1-249-417-11	CARBON	1K	5%	1/4W
R833	1-249-433-11	CARBON	22K	5%	1/4W
R834	1-249-403-11	CARBON	68	5%	1/4W
R851	1-249-441-11	CARBON	100K	5%	1/4W
R852	1-249-441-11	CARBON	100K	5%	1/4W
R853	1-249-441-11	CARBON	100K	5%	1/4W
R854	1-249-441-11	CARBON	100K	5%	1/4W
R855	1-249-441-11	CARBON	100K	5%	1/4W
R856	1-249-441-11	CARBON	100K	5%	1/4W
R857	1-249-441-11	CARBON	100K	5%	1/4W
R858	1-249-441-11	CARBON	100K	5%	1/4W
R859	1-249-422-11	CARBON	2.7K	5%	1/4W
R860	1-249-424-11	CARBON	3.9K	5%	1/4W

Ref.No.	Part No.	Description			
R861	1-249-428-11	CARBON	8.2K	5%	1/4W
R862	1-249-434-11	CARBON	27K	5%	1/4W
R863	1-249-422-11	CARBON	2.7K	5%	1/4W
R864	1-249-424-11	CARBON	3.9K	5%	1/4W
R866	1-249-422-11	CARBON	2.7K	5%	1/4W
R867	1-249-424-11	CARBON	3.9K	5%	1/4W
R868	1-247-872-11	CARBON	51K	5%	1/4W
R869	1-249-434-11	CARBON	27K	5%	1/4W
R870	1-249-429-11	CARBON	10K	5%	1/4W
R871	1-249-429-11	CARBON	10K	5%	1/4W
R872	1-249-429-11	CARBON	10K	5%	1/4W
R873	1-249-429-11	CARBON	10K	5%	1/4W
R876	1-249-431-11	CARBON	15K	5%	1/4W
R1001	1-249-408-11	CARBON	180	5%	1/4W
R1002	1-249-408-11	CARBON	180	5%	1/4W
R1051	1-249-414-11	CARBON	560	5%	1/4W
RV101	1-238-016-11	RES, ADJ, CARBON 10K (PB LEVEL)			
RV102	1-238-016-11	RES, ADJ, CARBON 10K (REC LEVEL)			
RV103	1-238-017-11	RES, ADJ, CARBON 22K (REC BIAS)			
RV201	1-238-016-11	RES, ADJ, CARBON 10K (PB LEVEL)			
RV202	1-238-016-11	RES, ADJ, CARBON 10K (REC LEVEL)			
RV203	1-238-017-11	RES, ADJ, CARBON 22K (REC BIAS)			
RV501	1-241-045-12	RES, VAR, CARBON 50K/50K (REC LEVEL)			
RV502	1-238-904-11	RES, VAR, CARBON 50K/50K (BALANCE)			
RV503	1-241-046-11	RES, VAR, CARBON 5K (BIAS)			
RY501	1-515-683-11	RELAY			
S501	1-572-154-11	SWITCH, ROTARY (DOLBY NR)			
S502	1-571-305-11	SWITCH, PUSH (1 KEY)(MPX FILTER)			
S701	1-571-305-11	SWITCH, PUSH (1 KEY)(POWER)			
S851	1-554-303-21	SWITCH, KEY BOARD (OPEN/CLOSE)			
S852	1-554-303-21	SWITCH, KEY BOARD (STOP)			
S853	1-554-303-21	SWITCH, KEY BOARD (REW)			
S854	1-554-303-21	SWITCH, KEY BOARD (FF)			
S855	1-554-303-21	SWITCH, KEY BOARD (REC)			
S856	1-554-303-21	SWITCH, KEY BOARD (FWD)			
S857	1-554-303-21	SWITCH, KEY BOARD (PAUSE)			
S858	1-554-303-21	SWITCH, KEY BOARD (REC MUTE)			
S859	1-554-303-21	SWITCH, KEY BOARD (RESET)			
S860	1-554-303-21	SWITCH, KEY BOARD (MEMORY)			
S861	1-554-303-21	SWITCH, KEY BOARD (DISPLAY MODE)			
S863	1-571-520-11	SWITCH, SLIDE (TIMER)			
S1001	1-466-238-11	ENCODER, ROTARY			
S1002	1-570-953-11	SWITCH, PUSH (1 KEY)(DOOR)			
S1003	1-571-958-11	SWITCH, PUSH (1 KEY)(CLOSE)			
S1004	1-572-126-11	SWITCH, PUSH (1 KEY)(OPEN)			
S1005	1-572-125-11	SWITCH, LEAF (REC)			
S1006	1-572-202-11	SWITCH, LEAF (HALF)			
S1007	1-572-125-11	SWITCH, LEAF (METAL)			
S1008	1-572-125-11	SWITCH, LEAF (70US)			
T101	1-433-354-11	TRANSFORMER, BIAS OSCILLATION			
T201	1-433-354-11	TRANSFORMER, BIAS OSCILLATION			
T501	1-433-355-11	TRANSFORMER, BIAS OSCILLATION			
T901	Δ 1-450-099-11	(AEP,UK,WG)...TRANSFORMER, POWER			
T901	Δ 1-450-100-11	(Canadian)...TRANSFORMER, POWER			
TB1001	*1-569-066-11	PIN, CONNECTOR 5P			
X801	1-577-359-21	VIBRATOR, CERAMIC 4.19MHZ			

ACCESSORY & PACKING MATERIAL

1-559-533-11	CORD, CONNECTION
*3-350-829-71	INDIVIDUAL CARTON
*3-350-830-01	CUSHION
3-751-743-11	(AEP,UK,Canadian)...MANUAL, INSTRUCTION (ENGLISH,FRENCH,SPANISH)
3-751-743-41	(AEP)...MANUAL, INSTRUCTION (GERMAN,DUTCH,SWEDISH,ITALIAN)
3-751-743-51	(WG)...MANUAL, INSTRUCTION (GERMAN)